AUXSOL

2025_05

AUX GROUP

Established in 1986, AUX Group is an enterprise which covers 5 industries. It ranked China's top 500 enterprises for consecutive years, 40000+ employees keep AUX fast development for recent years.

39 Years	$12.4 Billion	5	$ 9.6 Billion	500	40000+
History	Revenue in 2024	Business Industries	Assets	China's Top	Employees

R&D Strength

AUX Solar team is always adhered to the philosophy "quality is the footstone, innovation is the soul". We are market-oriented, focus on the analysis of product technology trends and based on the real demands of customers. In order to provide customers the best products and more values. We keep improving the core competitiveness of products, comprehensively to achieve product leadership in solar industry.

6 R&D centers

50+
Top experts in the industry

21261 Patents

100 million
Average annual investment

3 CNAS labs

5474 R&D engineers

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AUXSOL

WIN A GREEN FUTURE TOGETHER

Ningbo AUX Solar Import & Export Co., Ltd.

WIN A GREEN FUTURE TOGETHER

Content

39 Years	$12.4 Billion	5
History	Revenue in 2024	Business Industries
$9.6 Billion	500	40000+
Assets	China's Top	Employees

- Ningbo AUX Solar Technology Co., Ltd. ("AUX Solar") is a wholly-owned subsidiary of Ningbo AUX Smart Technology CO.,LTD. With registered capital of USD 44 million, AUX Solar specializes in on-grid inverters, hybrid inverters, battery packs and energy storage systems.

- AUX Group was founded in 1986, for many years it ranked China's top 500 enterprises. AUX Group covers several industries: home appliances, electrical equipment, medical service, real estate & investment. It has two listed companies (601567.SH, 02080.HK).

- AUX Group always strictly adheres to the philosophy of "Quality First", so does AUX Solar, which has over 100 employees and has been certified by ISO 9001 & ISO 14001& ISO 45001.

- In line with the development trend of global new energy industry, combining with 30+ years R&D experience of AUX Group, AUX Solar commits to providing a complete system solution for our customers with our high quality, efficient, reliable and user-friendly solar products.

- Up till now, AUX Solar has set up two R&D centers in Ningbo and Shenzhen as well as service centers in Pakistan, Brazil, Colombia, Poland, Bangladesh and Indonesia, building a marketing service system covering global solar markets.

- In the future, AUX Solar will improve its industrial layout of new energy with continuous innovation and dedication to solar industry, with the ultimate goal of promoting energy reform worldwide and rendering green energy available to thousands of households.

GROUP

Established in 1986, AUX Group is an enterprise which covers **5** industries. It ranked China's top **500** enterprises for consecutive years, **40,000+** employees keep AUX fast development for recent years.

15 Manufacturing Bases

YINZHOU, NINGBO

1,000,000 m²

JIANGBEI, NINGBO

367,000 m²

GAOXIN, NINGBO

183,000 m²

QIANWAN, NINGBO

340,000 m²

ZHANQI, NINGBO

590,000 m²

NANCHANG

820,000 m²

WUHU

400,000 m²

ZHENGZHOU

1,000,000 m²

MAANSHAN

660,000 m²

BRAZIL

8,000 m²

INDONESIA

7,000 m²

THAILAND

11,300 m²

POLAND

3,300 m²

GERMANY

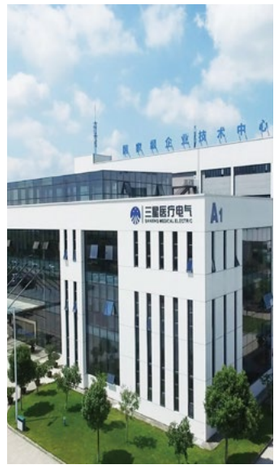
2,000 m²

MEXICO

8,000 m²

11 Overseas Companies

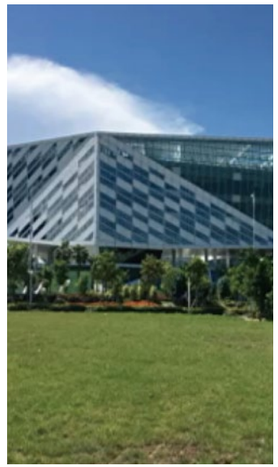
7 R&D Centers



NINGBO

HANGZHOU

NANJING

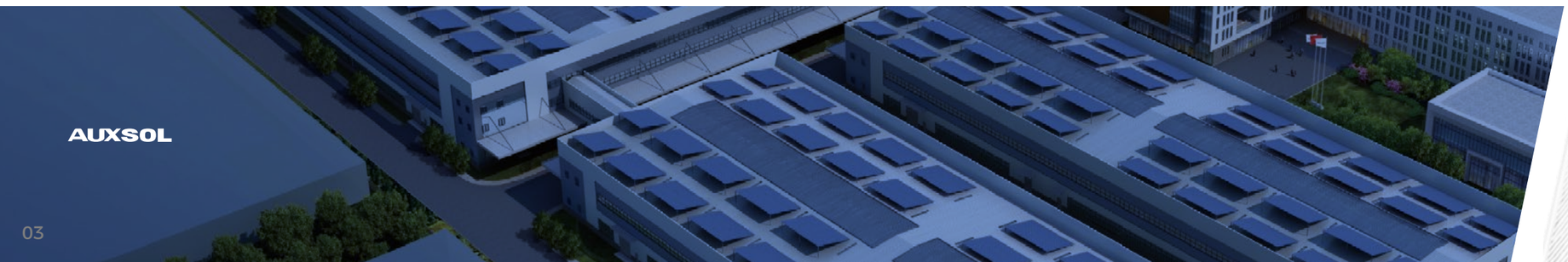


ZHUHAI

SHENZHEN

QINGDAO

JAPAN



AUXSOL

Milestone

AUX Group

1986

Establish

1989

Establishment of power division-Sanxing Electric

1994

Set up AUX air conditioning company

2000

Establishment of real estate division – AUX real estate

2006

Establishment of medical department-Mingzhou hospital

2011

Sanxing Electric was listed on Shanghai Stock Exchange

2015

Brazil and Indonesia set up overseas factories

2019

Thailand base completed

2021

Set up overseas factories in Poland

2023

The home appliance industry set up sales companies in Malaysia, Thailand and the United States.

2024

Set up easymeter factories in Germany

R&D Strength

Ningbo AUXSOL Technology Co., Ltd. (hereinafter referred to as 'AUXSOL'), with a registered capital of USD 44 million, is a wholly-owned subsidiary of AUX group, a new energy platform focusing on the research and development, production and service of photovoltaic grid-connected inverters, energy storage inverters, battery packs and energy storage systems.

Since its establishment, the company has focused on building the core advantages of products, technology, market and service. It has passed ISO9001, ISO14001, and ISO45001 system certifications. The company's photovoltaic inverters have been certified by CQC, CGC, VDE-AR-N 4105 and many other domestic and foreign professional institutions.

It has two major R&D centers in Ningbo and Shenzhen, 21 domestic after-sales service networks, and overseas service centers in Brazil, Poland, Germany and other places to build a global photovoltaic marketing system.

Under the leadership of the national "dual-carbon" policy, in line with the development trend of the new energy industry, the company combines more than 30 years of product research and development experience with photovoltaic technology innovation to create "leading quality, efficient, reliable, intelligent and friendly" smart photovoltaic products and overall solutions.

In the future, AUXSOL will continue to innovate, deepen the photovoltaic industry chain, improve the layout of the new energy industry, and promote the world with science and technology.

Global Certifications

1 EN 50549-1

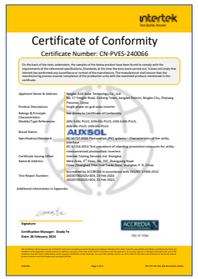
2 EN IEC 62109

3 EN 61000

4 NC-RFG

5 UNE

6 IEC 61727



7 IEC 62116

8 IEC 61683

9 INMETRO

10 VDE4105

On-Grid

Residential On-Grid Solution

3-3.3 kW
SINGLE PHASE

3.6-6 kW
SINGLE PHASE

7-10 kW
SINGLE PHASE

5-15 kW
THREE PHASE

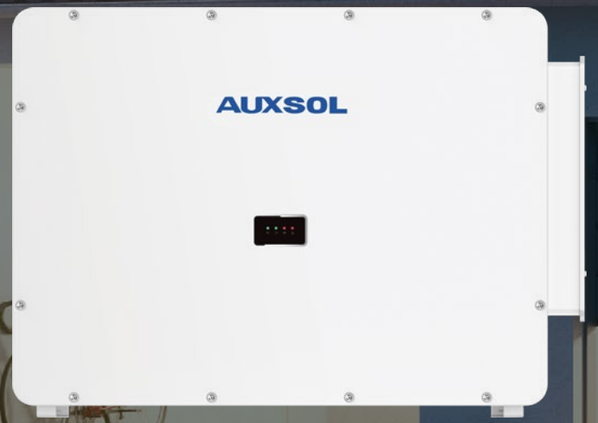
5-25 kW / (10-15)kW-LV
THREE PHASE

30-40 kW / (20-25)kW-LV
THREE PHASE

C&I On-Grid Solution

50-80 kW / (30-40)kW-LV
THREE PHASE

70-110 kW / (35-75)kW-LV
THREE PHASE



250-350kW
THREE PHASE

Energy Storage

Residential/C&I Hybrid Solution

Low Voltage

3.6-6 kW-LV
OFF-GRID HYBRID

3.6-6 kW-LV
SINGLE PHASE

5-12 kW-LV
THREE PHASE

High Voltage

3.6-6 kW-HV
SINGLE PHASE

5-20 kW-HV
THREE PHASE

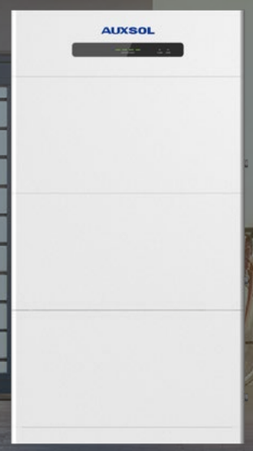
29.9-50 kW-HV
THREE PHASE

Residential/C&I Battery

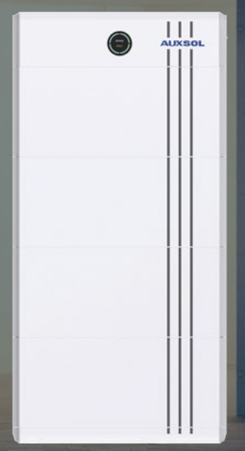
2.5 kWh
BATTERY

5-10 kWh
BATTERY

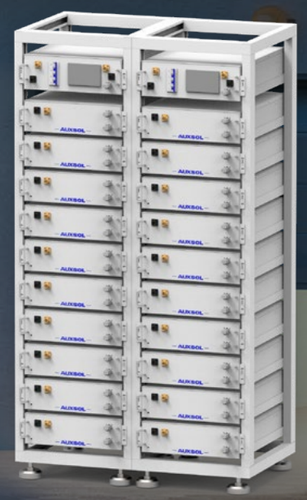
16 kWh
BATTERY



5.3-26.5kWh
BATTERY



5-32 kWh
BATTERY



60-100 kWh
BATTERY

Residential On-Grid Solution

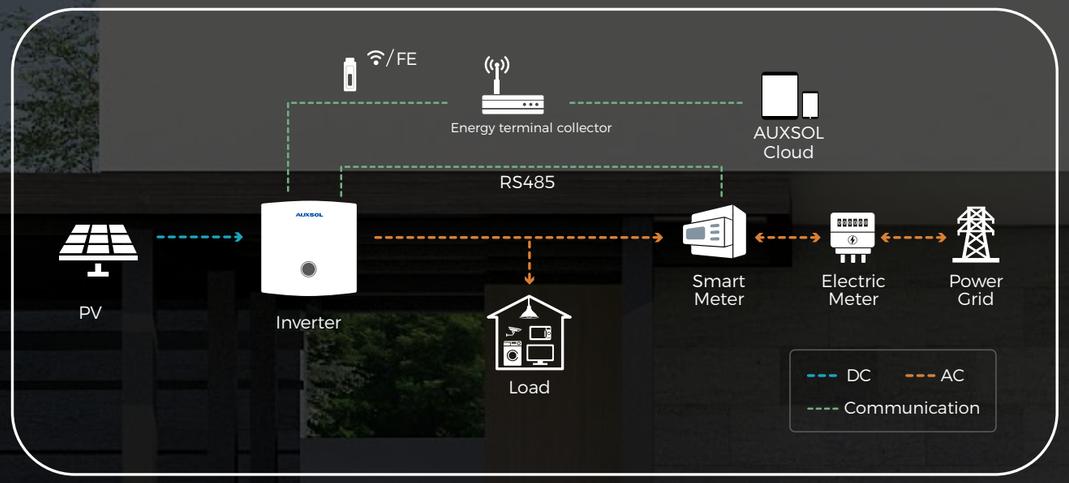
Residential photovoltaic grid-connected systems are usually composed of PV modules, grid-connected inverters, household loads, and power grids. Among them, the photovoltaic grid-connected inverter is the core of the household photovoltaic system, which dominates the energy conversion, distribution and scheduling of the entire photovoltaic system. AUX Energy is targeted at user requirements, grid environment to provide users with efficient, stable and economical clean energy for their homes.

All-day intelligent monitoring

Multiple types of wireless communication, support 4G/WiFI/LAN/RS485 communication, 24-hour real-time monitoring, to ensure the user's energy income.
Intelligent APP, one-click operation, real-time analysis of power generation income, help users rationally allocate energy, support user-defined settings

Sustainable, stable, efficient & safe energy

Adopt advanced control logic algorithm, efficient circuit topology, and strict quality management to ensure the stable output of the long life of the product
Intelligent AFCI, I/V detection, power control to provide users with efficient and safe energy solutions



SINGLE PHASE ON-GRID INVERTER

ASN-3SL | ASN-3.3SL

High Efficiency

» Max. string current 18A, suitable for high-current/double-sided components
» 40V low start-up voltage enables early startup and more energy generation

Smart

» Ultra-wide grid voltage design with automatic voltage regulation technology ensures uninterrupted operation even under unstable grid conditions
» Supports 24-hour load uninterruptible power monitoring (Optional)

User-Friendly

» Silent design (<35dB)
» Support RS485, WiFi, 4G, LAN, Suspec different communication methods

Safe & Reliable

» Supports I-V curve scanning, accurately identifying string anomalies
» Intelligent AFCI reduces fire risk (Optional)

Economical & Cost-Saving

» Compact and lightweight design for easy installation and maintenance

	ASN-3SL	ASN-3.3SL
PV INPUT		
Max. PV input power	4.5kW	4.95kW
Max. PV input voltage	550V	
Rated PV input voltage	360V	
Start-up voltage	40V	
MPPT voltage range	40-520V	
Max. PV input current	18A	
Max. short circuit current	22A	
MPPT number/Max. input strings number	1/1	
AC OUTPUT		
Rated output power	3kW	3.3kW
Max. apparent output power	3.3kVA	3.3kVA
Rated output voltage	220V/230V/240V, L/N/PE	
Output voltage range	160~300V	
Rated output frequency/ frequency range	50Hz/60Hz (±5Hz)	
Rated output current	13.6A	15A
Max. output current	15A	15A
Power factor	>0.99 (0.8 leading ... 0.8 lagging)	
THDi	<3%	
EFFICIENCY		
MPPT efficiency	99.80%	
Max. efficiency	97.5%	
EU efficiency	97.0%	
PROTECTION		
Integrated DC switch	Yes	
DC rever-polarity protection	Yes	
String monitoring	Yes	
Insulation impedance detection	Yes	
Residual leakage current detection	Yes	
Ground fault monitoring	Yes	
Short circuit protection	Yes	
Anti-islanding protection	Yes	
DC/AC surge protection	DC:Type II;AC:Type II	
DC arc-fault circuit protection	Optional	
I/V curve scanning	Yes	
GENERAL		
Operating temperature range	-30...+60℃	
Max. operation altitude	4000m (Derating above 3000m)	
Relative humidity	0-100%	
Cooling concept	Natural Cooling	
Ingress protection	IP66	
Topology	Transformerless	
Night self consumption	<1W	
Dimensions (W*H*D)	297*239*139mm	
Weight	5.3kg	
COMMUNICATION		
Display	LCD+LED+Bluetooth+APP	
Communication	RS485,Optional:WIFI,4G,LAN	
CERTIFICATION		
Grid standards	IEC 61727/62116,IEC 61683,EN50549,INMETRO 140,INMETRO 515	
Safety/EMC	IEC/EN 62109-1/2,EN IEC61000-6-1/2/3/4,EN IEC 61000-3-11/12	

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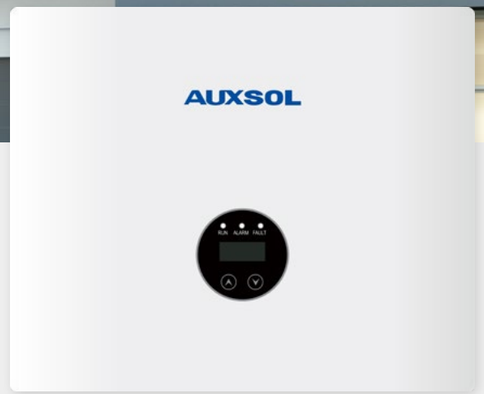

SINGLE PHASE ON-GRID INVERTER

ASN-3.6SL-G2 ASN-4SL-G2 ASN-4.6SL-G2
ASN-5SL-G2 ASN-6SL-G2

High Efficiency

» Max. 18A single string current, compatible with 210 large modules
» 40V low start-up voltage enables early startup and more energy generation

Smart

» Ultra-wide grid voltage design with automatic voltage regulation technology ensures uninterrupted operation even under unstable grid conditions
» Integrated Intelligent Management System

User-Friendly

» Silent design (<35dB)
» Support RS485, WiFi, 4G, LAN, Suspec different communication methods

Safe & Reliable

» IP66 protection rating, adaptable to harsh operating environments
» Intelligent AFCI reduces fire risk (Optional)

Economical & Cost-Saving

» Compact and lightweight design for easy installation and maintenance

	ASN-3.6SL-G2	ASN-4SL-G2	ASN-4.6SL-G2	ASN-5SL-G2	ASN-6SL-G2
PV INPUT					
Max. PV input power	5.4kW	6kW	6.9kW	7.5kW	9kW
Max. PV input voltage	550V				
Rated PV input voltage	360V				
Start-up voltage	40V				
MPPT voltage range	40-520V				
Max. PV input current	18A/18A				
Max. short circuit current	22A/22A				
MPPT number/Max. input strings number	2/2				
AC OUTPUT					
Rated output power	3.6kW	4kW	4.6kW	5kW	6kW
Max. apparent output power	3.96kVA	4.4kVA	5.06kVA	5.5kVA	6kVA
Rated output voltage	220V/230V/240V, L/N/PE				
Output voltage range	160~300V				
Rated output frequency/ frequency range	50Hz/60Hz (±5Hz)				
Rated output current	16.4A	18.2A	20.9A	22.7A	27.3A
Max. output current	18A	20A	23A	25A	27.3A
Power factor	>0.99 (0.8 leading ... 0.8 lagging)				
THDi	<3%				
EFFICIENCY					
MPPT efficiency	99.80%				
Max. efficiency	97.5%				
EU efficiency	97.0%				
PROTECTION					
Integrated DC switch	Yes				
DC rever-polarity protection	Yes				
String monitoring	Yes				
Insulation impedance detection	Yes				
Residual leakage current detection	Yes				
Ground fault monitoring	Yes				
Short circuit protection	Yes				
Anti-islanding protection	Yes				
DC/AC surge protection	DC:Type II;AC:Type II				
DC arc-fault circuit protection	Optional				
I/V curve scanning	Yes				
GENERAL					
Operating temperature range	-30...+60℃				
Max. operation altitude	4000m (Derating above 3000m)				
Relative humidity	0-100%				
Cooling concept	Natural Cooling				
Ingress protection	IP66				
Topology	Transformerless				
Night self consumption	<1W				
Dimensions (W*H*D)	330*268*168mm				
Weight	7.8kg				
COMMUNICATION					
Display	LCD+LED+Bluetooth+APP				
Communication	RS485,Optional:WIFI,4G,LAN				
CERTIFICATION					
Grid standards	EN 50549-1,IEC 61727/ 62116,IEC 61683,INMETRO 140,INMETRO 515				
Safety/EMC	IEC/EN 62109-1/2,EN IEC61000-6-1/2/3/4,EN IEC 61000-3-11/12				

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SINGLE PHASE ON-GRID INVERTER

ASN-7SL | ASN-7.5SL | ASN-8SL | ASN-9SL | ASN-10SL

High Efficiency

» Max. MPPT current 32A, suitable for high-current/double-sided components
» 40V low start-up voltage enables early startup and more energy generation

Smart

» Ultra-wide grid voltage design with automatic voltage regulation technology ensures uninterrupted operation even under unstable grid conditions
» Supports 24-hour load uninterruptible power monitoring (Optional)

User-Friendly

» Support RS485, WiFi, 4G, LAN, Suspec different communication methods
» Quick sweep access to AUXSOL Cloud, support remote upgrade and setup

Safe & Reliable

» Supports I-V curve scanning, accurately identifying string anomalies
» Intelligent AFCI reduces fire risk (Optional)

Economical & Cost-Saving

» Compact and lightweight design for easy installation and maintenance
» Supports high power component access, low system installation and cable costs

	ASN-7SL	ASN-7.5SL	ASN-8SL	ASN-9SL	ASN-10SL
PV INPUT					
Max. PV input power	10.5kW	11.25kW	12kW	18kW	20kW
Max. PV input voltage	600V				
Rated PV input voltage	380V				
Start-up voltage	80V			40V	
MPPT voltage range	80-550V			40-550V	
Max. PV input current	27A/16A			32A/16A	
Max. short circuit current	35A/20A			40A/20A	
MPPT number/Max. input strings number	2/3				
AC OUTPUT					
Rated output power	7kW	7.5kW	8kW	9kW	10kW
Max. apparent output power	7.7kVA	7.5kVA	8.3kVA	9kVA	10kVA
Rated output voltage	220V/230V/240V, L/N/PE				
Output voltage range	160~300V				
Rated output frequency/frequency range	50Hz/60Hz (±5Hz)				
Rated output current	31.8A	34A	36.4A	40.9A	45.5A
Max. output current	34A	34A	36.4A	40.9A	45.5A
Power factor	>0.99 (0.8 leading ... 0.8 lagging)				
THDi	<3%				
EFFICIENCY					
MPPT efficiency	99.80%				
Max. efficiency	97.80%			98.10%	
EU efficiency	97.30%			97.60%	
PROTECTION					
Integrated DC switch	Yes				
DC rever-polarity protection	Yes				
Insulation impedance detection	Yes				
Residual leakage current detection	Yes				
Ground fault monitoring	Yes				
Short circuit protection	Yes				
Anti-islanding protection	Yes				
DC/AC surge protection	DC:Type II;AC:Type II				
DC arc-fault circuit protection	Optional				
I/V curve scanning	Yes				
GENERAL					
Operating temperature range	-30...+60℃				
Max. operation altitude	4000m (Derating above 3000m)				
Relative humidity	0-100%				
Cooling concept	Natural Cooling				
Ingress protection	IP66				
Topology	Transformerless				
Night self consumption	<1W				
Dimensions (W*H*D)	400*383*177mm				
Weight	15.6kg				
COMMUNICATION					
Display	LED+Bluetooth+APP (Optional:LCD)				
Communication	RS485,Optional:WIFI,4G,LAN				
CERTIFICATION					
Grid standards	EN 50549-1,IEC 61727/62116,IEC 61683,UNE 217001,UNE 217002,NTS-631,PEA,G98				
Safety/EMC	IEC/EN 62109-1/2,EN IEC61000-6-1/2/3/4,EN IEC 61000-3-11/12				

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THREE PHASE ON-GRID INVERTER

ASN-5TL-G2 ASN-6TL-G2 ASN-8TL-G2
ASN-10TL-G2 ASN-12TL-G2 ASN-15TL-G2

High Efficiency

» Max. 20A single string current, compatible with 180/210 large modules
» 140V low start-up voltage enables early startup and more energy generation

Smart

» Ultra-wide grid voltage design with automatic voltage regulation technology ensures uninterrupted operation even under unstable grid conditions
» Supports 24-hour load uninterruptible power monitoring (Optional)

User-Friendly

» Silent design (<35dB)
» Support RS485, WiFi, 4G, LAN, Suspec different communication methods

Safe & Reliable

» Supports I-V curve scanning, accurately identifying string anomalies
» Intelligent AFCI reduces fire risk (Optional)
» Pure film capacitors with a 25-year design lifespan

	ASN-5TL-G2	ASN-6TL-G2	ASN-8TL-G2	ASN-10TL-G2	ASN-12TL-G2	ASN-15TL-G2
PV INPUT						
Max. PV input power	7.5kW	9kW	12kW	15kW	18kW	22.5kW
Max. PV input voltage	1100V					
Rated PV input voltage	620V					
Start-up voltage	140V					
MPPT voltage range	140-1000V					
Max. PV input current	20A/20A					26A/20A
Max. short circuit current	25A/25A					32A/25A
MPPT number/Max. input strings number	2/2					2/3
AC OUTPUT						
Rated output power	5kW	6kW	8kW	10kW	12kW	15kW
Max. apparent output power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA	16.5kVA
Rated output voltage	220V/380V,230V/400V,3L/N/PE					
Output voltage range	162-300V(Phase voltage),280-520V(Line voltage)					
Rated output frequency/ frequency range	50Hz/60Hz (±5Hz)					
Rated output current	7.2A	8.7A	11.5A	14.4A	17.3A	21.7A
Max. output current	7.9A	9.5A	12.7A	15.9A	19.1A	23.8A
Power factor	>0.99 (0.8 leading ... 0.8 lagging)					
THDi	<3%					
EFFICIENCY						
MPPT efficiency	99.80%					
Max. efficiency	98.60%					
EU efficiency	98.3%					
PROTECTION						
Integrated DC switch	Yes					
DC rever-polarity protection	Yes					
Insulation impedance detection	Yes					
Residual leakage current detection	Yes					
Ground fault monitoring	Yes					
Short circuit protection	Yes					
Anti-islanding protection	Yes					
DC/AC surge protection	DC:Type II;AC:Type II					
DC arc-fault circuit protection	Optional					
I/V curve scanning	Yes					
GENERAL						
Operating temperature range	-30...+60℃					
Max. operation altitude	4000m (Derating above 3000m)					
Relative humidity	0-100%					
Cooling concept	Natural Cooling					
Ingress protection	IP66					
Topology	Transformerless					
Night self consumption	<1W					
Dimensions (W*H*D)	430*335*175.5mm					
Weight	12.6kg					15.1kg
COMMUNICATION						
Display	LED+Bluetooth+APP (Optional:LCD)					
Communication	RS485,Optional:WIFI,4G,LAN					
CERTIFICATION						
Grid standards	EN 50549-1,IEC 61727/ 62116,IEC 61683,VDE 4105,VDE 0124,G98					
Safety/EMC	IEC/EN 62109-1/2,EN IEC61000-6-1/2/3/4,EN IEC 61000-3-11/12					

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THREE PHASE ON-GRID INVERTER

ASN-12TL | ASN-15TL | ASN-17TL | ASN-20TL | ASN-23TL | ASN-25TL

High Efficiency

» Max. MPPT current 32A, suitable for high-current/double-sided components
» Wide MPPT voltage range to increase power generation for more PV revenue

Smart

» Ultra-wide grid voltage design with automatic voltage regulation technology ensures uninterrupted operation even under unstable grid conditions
» Integrated Intelligent Management System

User-Friendly

» Support RS485, WiFi, 4G, LAN, Suspec different communication methods
» Quick sweep access to AUXSOL Cloud, support remote upgrade and setup

Safe & Reliable

» Intelligent AFCI reduces fire risk (Optional)
» Pure film capacitors with a 25-year design lifespan.

Economical & Cost-Saving

» Supports high power component access, low system installation and cable costs

	ASN-12TL	ASN-15TL	ASN-17TL	ASN-20TL	ASN-23TL	ASN-25TL
PV INPUT						
Max. PV input power	18kW	22kW	22kW	26kW	30kW	32kW
Max. PV input voltage	1100V					
Rated PV input voltage	620V					
Start-up voltage	200V					
MPPT voltage range	200-1000V					
Max. PV input current	16A/16A	32A/16A	32A/32A			
Max. short circuit current	20A/20A	40A/20A	40A/40A			
MPPT number/Max. input strings number	2/2	2/3	2/4			
AC OUTPUT						
Rated output power	12kW	15kW	17kW	20kW	23kW	25kW
Max. apparent output power	13.2kVA	16.5kVA	18.7kVA	22kVA	25.3kVA	27.5kVA
Rated output voltage	220V/380V,230V/400V,3L/N/PE					
Output voltage range	178V-276V(Phase voltage),308-478(Line voltage)					
Rated output frequency/ frequency range	50Hz/60Hz (±5Hz)					
Rated output current	18.2A	22.8A	25.7A	30.3A	34.8A	37.8A
Max. output current	20.1A	25.1A	28.3A	33.3A	38.3A	39.8A
Power factor	>0.99 (0.8 leading ... 0.8 lagging)					
THDi	<3%					
EFFICIENCY						
MPPT efficiency	99.80%					
Max. efficiency	98.30%	98.50%				
EU efficiency	97.70%	97.80%	98%			
PROTECTION						
Integrated DC switch	Yes					
DC rever-polarity protection	Yes					
String monitoring	Optional					
Insulation impedance detection	Yes					
Residual leakage current detection	Yes					
Ground fault monitoring	Yes					
Short circuit protection	Yes					
Anti-islanding protection	Yes					
DC/AC surge protection	DC:Type II;AC:Type II					
DC arc-fault circuit protection	Optional					
I/V curve scanning	Yes					
GENERAL						
Operating temperature range	-30...+60℃					
Max. operation altitude	4000m (Derating above 3000m)					
Relative humidity	0-100%					
Cooling concept	Smart Fan Cooling					
Ingress protection	IP66					
Topology	Transformerless					
Night self consumption	<1W					
Dimensions (W*H*D)	455*462*214mm					
Weight	23.5kg					
COMMUNICATION						
Display	LED+Bluetooth+APP					
Communication	RS485,Optional:WIFI,4G,LAN					
CERTIFICATION						
Grid standards	EN 50549-1 , IEC 61727/ 62116,IEC 61683,VDE 4105 VDE 0124,G99,UNE 217001,UNE 217002,NTS-631, NCRfG, PEA/DEWA,PTPiREE,INMETRO 140,INMETRO 515,					
Safety/EMC	IEC/EN 62109-1/2,EN IEC61000-6-1/2/3/4,EN IEC 61000-3-11/12					

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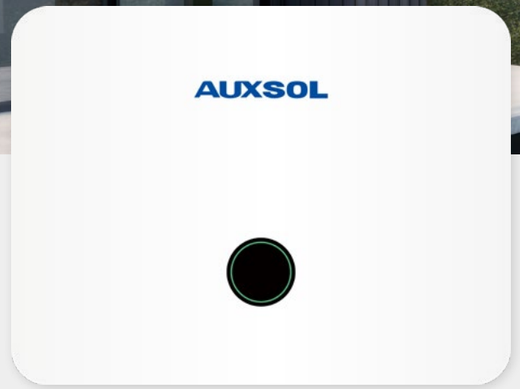

THREE PHASE ON-GRID INVERTER

ASN-30TL-G2 | ASN-33TL | ASN-36TL | ASN-40TL

High Efficiency

» Max. Efficiency 98.6%,MPPT Max. Efficiency 99.8%
» 160V low start-up voltage enables early startup and more energy generation

Smart

» Ultra-wide grid voltage design with automatic voltage regulation technology ensures uninterrupted operation even under unstable grid conditions
» PID repair function to enhance system power generation (Optional)

User-Friendly

» Support RS485, WiFi, 4G, LAN, Suspec different communication methods
» Quick sweep access to AUXSOL Cloud, support remote upgrade and setup

Safe & Reliable

» Supports I-V curve scanning, accurately identifying string anomalies
» Intelligent AFCI reduces fire risk (Optional)
» Pure film capacitors with a 25-year design lifespan.

Economical & Cost-Saving

» Intelligent string monitoring, rapid identification of faulty strings, reducing safety risks (optional)
» Supports high power component access, low system installation and cable costs

	ASN-30TL-G2	ASN-33TL	ASN-36TL	ASN-40TL
PV INPUT				
Max. PV input power	45kW	49.5kW	54kW	60kW
Max. PV input voltage	1100V			
Rated PV input voltage	620V	600V		
Start-up voltage	160V	180V		
MPPT voltage range	150-1000V	160-1000V		
Max. PV input current	40A/32A/32A	40A/40A/20A		40A/40A/20A/20A
Max. short circuit current	50A/40A/40A	50A/50A/25A		50A/50A/25A/25A
MPPT number/Max. input strings number	3/6	3/5		4/6
AC OUTPUT				
Rated output power	30kW	33kW	36kW	40kW
Max. apparent output power	33kVA	36.3kVA	39.6kVA	44kVA
Rated output voltage	220V/380V,230V/400V,3L/N/PE			
Output voltage range	162-300V(Phase voltage),280-520V(Line voltage)			
Rated output frequency/ frequency range	50Hz/60Hz (±5Hz)			
Rated output current	43.3A	47.6A	52A	57.7A
Max. output current	47.6A	52.4A	57.2A	63.5A
Power factor	>0.99 (0.8 leading ... 0.8 lagging)			
THDi	<3%			
EFFICIENCY				
MPPT efficiency	99.80%			
Max. efficiency	98.60%			
EU efficiency	98.20%	98.30%		
PROTECTION				
Integrated DC switch	Yes			
DC rever-polarity protection	Yes			
String monitoring	Optional			
Insulation impedance detection	Yes			
Residual leakage current detection	Yes			
Ground fault monitoring	Yes			
Short circuit protection	Yes			
Anti-islanding protection	Yes			
DC/AC surge protection	DC:Type II;AC:Type II			
PID recovery	/	Optional		
DC arc-fault circuit protection	Optional			
I/V curve scanning	Yes			
GENERAL				
Operating temperature range	-30...+60℃			
Max. operation altitude	4000m (Derating above 3000m)			
Relative humidity	0-100%			
Cooling concept	Smart Fan Cooling			
Ingress protection	IP66			
Topology	Transformerless			
Night self consumption	<1W			
Dimensions (W*H*D)	524*419*198mm	568*443*228mm		
Weight	24.5kg	35kg		
COMMUNICATION				
Display	LED+Bluetooth+APP(Optional:LCD)			
Communication	RS485,Optional:WIFI,4G,LAN			
CERTIFICATION				
Grid standards	EN 50549-1, IEC 61727/62116, IEC 61683, VDE 4105, VDE 0124,NCRfG,PEA,UNE 217001,UNE 217002,NTS-631			
Safety/EMC	IEC/EN 62109-1/2,EN IEC61000-6-1/2/3/4,EN IEC 61000-3-11/12			

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THREE PHASE ON-GRID INVERTER

ASN-10TL-LV | ASN-12TL-LV | ASN-15TL-LV

High Efficiency

» Max. MPPT current 32A, suitable for high-current/double-sided components
» Wide MPPT voltage range to increase power generation for more PV revenue

Smart

» Edge-damped control algorithm, adaptive to weak grid environment
» Supports 24-hour load uninterruptible power monitoring (Optional)
» Integrated Intelligent Management System

User-Friendly

» Support RS485, WiFi, 4G, LAN, Suspec different communication methods
» Quick sweep access to AUXSOL Cloud, support remote upgrade and setup

Safe & Reliable

» Supports I-V curve scanning, accurately identifying string anomalies
» Intelligent AFCI reduces fire risk
» Pure film capacitors with a 25-year design lifespan

Economical & Cost-Saving

» Intelligent string monitoring, rapid identification of faulty strings, reducing safety risks (Optional)
» Supports high power component access, low system installation and cable costs

	ASN-10TL-LV	ASN-12TL-LV	ASN-15TL-LV
PV INPUT			
Max. PV input power	15kW	18kW	22.5kW
Max. PV input voltage	800V		
Rated PV input voltage	360V		
Start-up voltage	200V		
MPPT voltage range	200-800V		
Max. PV input current	32A/32A		
Max. short circuit current	40A/40A		
MPPT number/Max. input strings number	2/4		
AC OUTPUT			
Rated output power	10kW	12kW	15kW
Max. apparent output power	11kVA	13.2kVA	15kVA
Rated output voltage	127/220V,3L/N/PE		
Output voltage range	103-159(Phase voltage),178-276V(Line voltage)		
Rated output frequency/ frequency range	50/60Hz(±5Hz)		
Rated output current	26.2A	31.5A	39.4A
Max. output current	28.9A	34.6A	39.4A
Power factor	>0.99 (0.8 leading ... 0.8 lagging)		
THDi	<3%		
EFFICIENCY			
MPPT efficiency	99.80%		
Max. efficiency	98.50%		
EU efficiency	98.00%		
PROTECTION			
Integrated DC switch	Yes		
DC rever-polarity protection	Yes		
String monitoring	Optional		
Insulation impedance detection	Yes		
Residual leakage current detection	Yes		
Ground fault monitoring	Yes		
Short circuit protection	Yes		
Anti-islanding protection	Yes		
DC/AC surge protection	DC:Type II;AC:Type II		
DC arc-fault circuit protection	Yes		
I/V curve scanning	Yes		
GENERAL			
Operating temperature range	-30...+60℃		
Max. operation altitude	4000m (Derating above 3000m)		
Relative humidity	0-100%		
Cooling concept	Smart Fan Cooling		
Ingress protection	IP66		
Topology	Transformerless		
Night self consumption	<1W		
Dimensions (W*H*D)	455*462*214mm		
Weight	≤25kg		
COMMUNICATION			
Display	LED+Bluetooth+APP (Optional:LCD)		
Communication	RS485,Optional:WIFI,4G,LAN		
CERTIFICATION			
Grid standards	EN50549-1,PN-EN 50549-1 ,PSE, PTPiREE, RD647,RD413,RD1699,UNE 217001/2, NTS631,NC RfG,INMETRO 140,INMETRO 515		
Safety/EMC	IEC/EN 62109-1/2,EN IEC61000-6-2/4,EN IEC 61000-3-11/12		

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THREE PHASE ON-GRID INVERTER

ASN-20TL-LV | ASN-25TL-LV

High Efficiency

» MPPT supports max. current 40A, single string supports max. current of 20A, compatible with 210 large modules
» 180V low start-up voltage enables early startup and more energy generation

Smart

» Ultra-wide grid voltage design with automatic voltage regulation technology ensures uninterrupted operation even under unstable grid conditions
» PID repair function to enhance system power generation (Optional)

User-Friendly

» Support RS485, WiFi, 4G, LAN, Suspec different communication methods
» Quick sweep access to AUXSOL Cloud, support remote upgrade and setup

Safe & Reliable

» Supports I-V curve scanning, accurately identifying string anomalies
» Intelligent AFCI reduces fire risk
» Pure film capacitors with a 25-year design lifespan

Economical & Cost-Saving

» Intelligent string monitoring, rapid identification of faulty strings, reducing safety risks (Optional)
» 4-way MPPT design to accommodate multi-orientation roofs

	ASN-20TL-LV	ASN-25TL-LV
PV INPUT		
Max. PV input power	30kW	37.5kW
Max. PV input voltage	800V	
Rated PV input voltage	360V	
Start-up voltage	180V	
MPPT voltage range	160-800V	
Max. PV input current	40A/40A/20A/20A	
Max. short circuit current	50A/50A/25A/25A	
MPPT number/Max. input strings number	4/6	
AC OUTPUT		
Rated output power	20kW	25kW
Max. apparent output power	22kVA	27.5kVA
Rated output voltage	127/220V,3L/N/PE	
Output voltage range	92-173(Phase voltage),160-300V(Line voltage)	
Rated output frequency/ frequency range	50/60Hz(±5Hz)	
Rated output current	52.5A	65.6A
Max. output current	57.7A	72.2A
Power factor	>0.99 (0.8 leading ... 0.8 lagging)	
THDi	<3%	
EFFICIENCY		
MPPT efficiency	99.80%	
Max. efficiency	98.60%	
EU efficiency	98.00%	
PROTECTION		
Integrated DC switch	Yes	
DC rever-polarity protection	Yes	
String monitoring	Optional	
Insulation impedance detection	Yes	
Residual leakage current detection	Yes	
Ground fault monitoring	Yes	
Short circuit protection	Yes	
Anti-islanding protection	Yes	
DC/AC surge protection	DC:Type II;AC:Type II	
PID recovery	Optional	
DC arc-fault circuit protection	Yes	
I/V curve scanning	Yes	
GENERAL		
Operating temperature range	-30...+60℃	
Max. operation altitude	4000m (Derating above 3000m)	
Relative humidity	0-100%	
Cooling concept	Smart Fan Cooling	
Ingress protection	IP66	
Topology	Transformerless	
Night self consumption	<1W	
Dimensions (W*H*D)	568*443*228mm	
Weight	35kg	
COMMUNICATION		
Display	LED+Bluetooth+APP (Optional:LCD)	
Communication	RS485,Optional:WIFI,4G,LAN	
CERTIFICATION		
Grid standards	EN50549-1,INMETRO 140,INMETRO 515	
Safety/EMC	IEC/EN 62109-1/2,EN IEC61000-6-2/4,EN IEC 61000-3-11/12	

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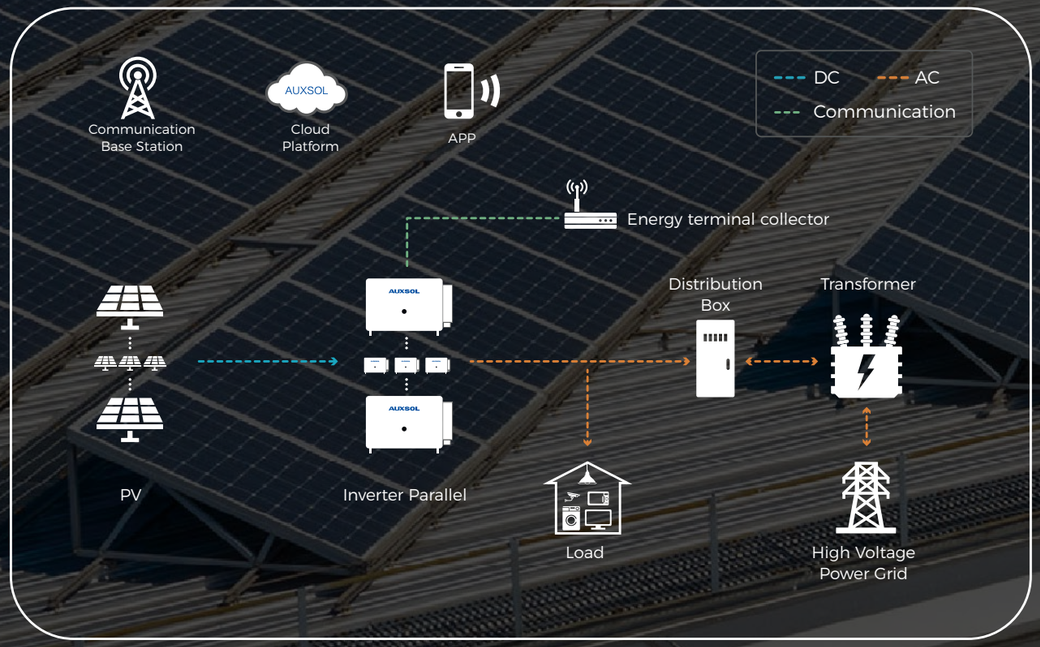
C&I On-Grid Solution

AUXSOL offers a comprehensive portfolio of commercial & industrial (C&I) string inverters spanning 50-350kW power ranges. Our modular design philosophy enables differentiated system solutions tailored to specific project requirements, ensuring optimal alignment between application scenarios and product performance. These high-power photovoltaic inverters have been extensively deployed in diversified distributed power station applications including C&I rooftops, mountainous terrains, and agro-photovoltaic/fishery-photovoltaic complementary systems.

Core Technological Advantages:

Achieves industry-leading conversion efficiency up to 98.6% through advanced topology architecture and innovative control algorithms in three-phase grid-tied invertersSupports 1.5 times DC overmatching capability with Max. 20A input current per string, fully compatible with 182/210 high-efficiency large-format modules to enhance energy yield and ROIIntegrates intelligent string-level monitoring, IV curve scanning, and 5-second cloud data refresh frequency, enabling precise fault diagnosis via smart O&M platforms

The AUXSOL C&I Photovoltaic System Solution delivers sustainable value through equipment reliability, operational efficiency, and intelligent energy management systems, providing investors with bankable clean energy integration services for commercial and industrial applications.



THREE PHASE ON-GRID INVERTER

ASN-50TL-G2 | ASN-60TL-G2 | ASN-70TL-G2 | ASN-75TL-G2 | ASN-80TL-G2

High Efficiency

» Single MPPT supports a Max. current of 48A, single string supports a Max. current of 20A, compatible with 210 large modules
» 180V low start-up voltage enables early startup and more energy generation

Smart

» Ultra-wide grid voltage design with automatic voltage regulation technology ensures uninterrupted operation even under unstable grid conditions
» PID repair function to enhance system power generation (Optional)

User-Friendly

» Support RS485, WiFi, 4G, LAN, Suspec different communication methods
» Quick sweep access to AUXSOL Cloud, support remote upgrade and setup

Safe & Reliable

» Supports I-V curve scanning, accurately identifying string anomalies
» Intelligent AFCI reduces fire risk (Optional)

Economical & Cost-Saving

» Intelligent string monitoring, rapid identification of faulty strings, reducing safety risks (Optional)
» No power derating at 45℃, more reliable with more yield

	ASN-50TL-G2	ASN-60TL-G2	ASN-70TL-G2	ASN-75TL-G2	ASN-80TL-G2
PV INPUT					
Max. PV input power	75kW	90kW	105kW	112.5kW	120kW
Max. PV input voltage	1100V				
Rated PV input voltage	630V				
Start-up voltage	180V				
MPPT voltage range	150-1000V				
Max. PV input current	4*40A	4*48A			
Max.short circuit current	4*50A	4*60A			
MPPT number/Max. input strings number	4/8	4/12			
AC OUTPUT					
Rated output power	50kW	60kW	70kW	75kW	80kW
Max. apparent output power	55kVA	66kVA	77kVA	82.5kVA	88kVA
Rated output voltage	220V/380V,230V/400V,3L/N/PE				
Output voltage range	162-300V(Phase voltage),280-520V(Line voltage)				
Rated output frequency/ frequency range	50Hz/60Hz (±5Hz)				
Rated output current	72.2A	86.6A	101.A	108.3A	115.5A
Max. output current	79.4A	95.3A	111A	119.1A	127A
Power factor	>0.99 (0.8 leading ... 0.8 lagging)				
THDi	<3%				
EFFICIENCY					
MPPT efficiency	>99.8%				
Max. efficiency	98.60%				
EU efficiency	98.30%				
PROTECTION					
Integrated DC switch	Yes				
DC rever-polarity protection	Yes				
String monitoring	Optional				
Insulation impedance detection	Yes				
Residual leakage current detection	Yes				
Ground fault monitoring	Yes				
Short circuit protection	Yes				
Anti-islanding protection	Yes				
DC/AC surge protection	DC:Type II;AC:Type II				
PID recovery	Optional				
DC arc-fault circuit protection	Optional				
I/V curve scanning	Yes				
GENERAL					
Operating temperature range	-30...+60℃				
Max. operation altitude	4000m (Derating above 3000m)				
Relative humidity	0-100%				
Cooling concept	Smart Fan Cooling				
Ingress protection	IP66				
Topology	Transformerless				
Night self consumption	<1W				
Dimensions (W*H*D)	735*530*285mm				
Weight	60kg				
COMMUNICATION					
Display	LED+Bluetooth+APP(Optional:LCD)				
Communication	RS485,Optional:WIFI,4G,LAN				
CERTIFICATION					
Grid standards	EN 50549-1, IEC 61727/62116,IEC 61683,VDE 4105,PORTARIA N°515(50K,60K),PEA,NCRfG,DEWA				
Safety/EMC	IEC/EN 62109-1/2,EN IEC61000-6-1/2/3/4,EN IEC 61000-3-11/12				

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THREE PHASE ON-GRID INVERTER

ASN-90TL-PLUS | ASN-100TL-PLUS | ASN-110TL-PLUS

High Efficiency

» MPPT supports max. current 40A, single string supports max. current 20A, compatible with 210 large modules
» 195V low start-up voltage enables early startup and more energy generation

Smart

» Ultra-wide grid voltage design with automatic voltage regulation technology ensures uninterrupted operation even under unstable grid conditions
» Integrated Intelligent Management System

User-Friendly

» Support RS485, WiFi, 4G, LAN, Suspec different communication methods
» Quick sweep access to AUXSOL Cloud, support remote upgrade and setup

Safe & Reliable

» Supports I-V curve scanning, accurately identifying string anomalies
» Intelligent AFCI reduces fire risk (Optional)

Economical & Cost-Saving

» Intelligent string monitoring, rapid identification of faulty strings, reducing safety risks (Optional)
» 8-way MPPT design
» No power derating at 45℃, more reliable with more yield

	ASN-90TL-PLUS	ASN-100TL-PLUS	ASN-110TL-PLUS
PV INPUT			
Max. PV input power	135kW	150kW	165kW
Max. PV input voltage	1100V		
Rated PV input voltage	620V		
Start-up voltage	195V		
MPPT voltage range	180-1000V		
Max. PV input current	8*40A		
Max.short circuit current	8*50A		
MPPT number/Max. input strings number	8/16		
AC OUTPUT			
Rated output power	90kW	100kW	110kW
Max. apparent output power	99kVA	110kVA	121kVA
Rated output voltage	220V/380V,230V/400V,3L/N/PE		
Output voltage range	162-300V(Phase voltage), 280-520V(Line voltage)		
Rated output frequency/frequency range	50Hz/60Hz (±5Hz)		
Rated output current	130A	144.5A	158.8A
Max.output current	143A	158.8A	174.6A
Power factor	>0.99 (0.8 leading ... 0.8 lagging)		
THDi	<3%		
EFFICIENCY			
MPPT efficiency	99.80%		
Max. efficiency	98.65%		
EU efficiency	98.35%		
PROTECTION			
Integrated DC switch	Yes		
DC rever-polarity protection	Yes		
String monitoring	Yes		
Insulation impedance detection	Yes		
Residual leakage current detection	Yes		
Ground fault monitoring	Yes		
Short circuit protection	Yes		
Anti-islanding protection	Yes		
DC/AC surge protection	DC:Type II;AC:Type II (Optional:Type I)		
DC arc-fault circuit protection	Optional		
I/V curve scanning	Optional		
GENERAL			
Operating temperature range	-30...+60℃		
Max. operation altitude	4000m (Derating above 3000m)		
Relative humidity	0-100%		
Cooling concept	Smart Fan Cooling		
Ingress protection	IP66		
Topology	Transformerless		
Night self consumption	<2W		
Dimensions (W*H*D)	1007*668*341mm		
Weight	80kg		
COMMUNICATION			
Display	LED+Bluetooth+APP		
Communication	RS485,Optional:WIFI,4G		
CERTIFICATION			
Grid standards	EN 50549-1,IEC 61727/ 62116,IEC 61683,PEA		
Safety/EMC	IEC/EN 62109-1/2,EN IEC61000-6-1/2/3/4,EN IEC 61000-3-11/12		

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THREE PHASE ON-GRID INVERTER-LV

ASN-30TL-LV-G2 | ASN-40TL-LV-G2

High Efficiency

» Single MPPT supports a Max. current of 48A, single string supports a Max. current of 20A, compatible with 210 large modules
» 180V low start-up voltage enables early startup and more energy generation

Smart

» Ultra-wide grid voltage design with automatic voltage regulation technology ensures uninterrupted operation even under unstable grid conditions
» PID repair function to enhance system power generation (Optional)

User-Friendly

» Support RS485, WiFi, 4G, LAN, Suspec different communication methods
» Quick sweep access to AUXSOL Cloud, support remote upgrade and setup

Safe & Reliable

» Supports I-V curve scanning, accurately identifying string anomalies
» Intelligent AFCI reduces fire risk (Optional)
» Pure film capacitors with a 25-year design lifespan

Economical & Cost-Saving

» Intelligent string monitoring, rapid identification of faulty strings, reducing safety risks (Optional)
» 4-way MPPT design to accommodate multi-orientation roofs

	ASN-30TL-LV-G2	ASN-40TL-LV-G2
PV INPUT		
Max. PV input power	45kW	60kW
Max. PV input voltage	800V	
Rated PV input voltage	360V	
Start-up voltage	180V	
MPPT voltage range	150-800V	
Max. PV input current	48/48/48/48A	
Max. short circuit current	60/60/60/60A	
MPPT number/Max. input strings number	4/12	
AC OUTPUT		
Rated output power	30kW	40kW
Max. apparent output power	33kVA	44kVA
Rated output voltage	127/220V,3L/N/PE	
Output voltage range	92-173(Phase voltage),160-300V(Line voltage)	
Rated output frequency/ frequency range	50/60Hz(±5Hz)	
Rated output current	78.7A	105A
Max. output current	86.6A	115.5A
Power factor	>0.99 (0.8 leading ... 0.8 lagging)	
THDi	<3%	
EFFICIENCY		
MPPT efficiency	99.80%	
Max. efficiency	98.60%	
EU efficiency	98.00%	
PROTECTION		
Integrated DC switch	Yes	
DC rever-polarity protection	Yes	
String monitoring	Optional	
Insulation impedance detection	Yes	
Residual leakage current detection	Yes	
Ground fault monitoring	Yes	
Short circuit protection	Yes	
Anti-islanding protection	Yes	
DC/AC surge protection	DC:Type II;AC:Type II	
PID recovery	Optional	
DC arc-fault circuit protection	Yes	
I/V curve scanning	Yes	
GENERAL		
Operating temperature range	-30...+60℃	
Max. operation altitude	4000m (Derating above 3000m)	
Relative humidity	0-100%	
Cooling concept	Smart Fan Cooling	
Ingress protection	IP66	
Topology	Transformerless	
Night self consumption	<1W	
Dimensions (W*H*D)	735*530*285mm	
Weight	60kg	
COMMUNICATION		
Display	LED+Bluetooth+APP (Optional:LCD)	
Communication	RS485,Optional:WIFI,4G,LAN	
CERTIFICATION		
Grid standards	EN50549-1,INMETRO 140,INMETRO 515	
Safety/EMC	IEC/EN 62109-1/2,EN IEC61000-6-2/4,EN IEC 61000-3-11/12	

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THREE PHASE ON-GRID INVERTER-LV

ASN-35TL-LV | ASN-40TL-LV | ASN-45TL-LV | ASN-50TL-LV | ASN-60TL-LV | ASN-70TL-LV | ASN-75TL-LV

High Efficiency

» Max. MPPT current 36A, suitable for high-current/double-sided components
» 195V low start-up voltage enables early startup and more energy generation

Smart

» Ultra-wide grid voltage design with automatic voltage regulation technology ensures uninterrupted operation even under unstable grid conditions
» PID repair function to enhance system power generation (Optional)

User-Friendly

» Support RS485, WiFi, 4G, LAN, Suspec different communication methods
» Quick sweep access to AUXSOL Cloud, support remote upgrade and setup

Safe & Reliable

» Supports I-V curve scanning, accurately identifying string anomalies
» Intelligent AFCI reduces fire risk (Optional)

Economical & Cost-Saving

» Intelligent string monitoring, rapid identification of faulty strings, reducing safety risks (Optional)
» 8-way MPPT design to accommodate multi-orientation roofs
» Meter can realize multi-machine backflow prevention function

	ASN-35TL-LV	ASN-40TL-LV	ASN-45TL-LV	ASN-50TL-LV	ASN-60TL-LV	ASN-70TL-LV	ASN-75TL-LV
PV INPUT							
Max. PV input power	52.5kW	60kW	67.5kW	75kW	90kW	105kW	112.5kW
Max. PV input voltage	800V						
Rated PV input voltage	420V						
Start-up voltage	195V						
MPPT voltage range	180-800V						
Max. PV input current	32A*4			32A*5	36A*8		
Max. short circuit current	40A*4			40A*5	50A*8		
MPPT number/Max. input strings number	4/8			5/10	8/16		
AC OUTPUT							
Rated output power	35kW	40kW	45kW	50kW	60kW	70kW	75kW
Max. apparent output power	38.5kVA	44kVA	49.5kVA	55kVA	60kVA	70kVA	75kVA
Rated output voltage	127/220V,3L/N/PE						
Output voltage range	92-173(Phase voltage),160-300V(Line voltage)						
Rated output frequency/ frequency range	50/60Hz(±5Hz)						
Rated output current	91.9A	105A	118.1A	131.2A	157.5A	183.7A	196.8A
Max. output current	101A	115.5A	130A	144.3A	157.5A	183.7A	196.8A
Power factor	>0.99 (0.8 leading ... 0.8 lagging)						
THDi	<3%						
EFFICIENCY							
MPPT efficiency	99.80%						
Max. efficiency	98.50%						
EU efficiency	98.30%						
PROTECTION							
Integrated DC switch	Yes						
DC rever-polarity protection	Yes						
String monitoring	Yes						
Insulation impedance detection	Yes						
Residual leakage current detection	Yes						
Ground fault monitoring	Yes						
Short circuit protection	Yes						
Anti-islanding protection	Yes						
DC/AC surge protection	DC:Type II;AC:Type II(Optional:Type I)						
DC arc-fault circuit protection	Yes						
I/V curve scanning	Yes						
GENERAL							
Operating temperature range	-30...+60℃						
Max. operation altitude	4000m (Derating above 3000m)						
Relative humidity	0-100%						
Cooling concept	Smart Fan Cooling						
Ingress protection	IP66						
Topology	Transformerless						
Night self consumption	<2W						
Dimensions (W*H*D)	1007*668*357mm						
Weight	≤75kg			82kg		94kg	
COMMUNICATION							
Display	LED+Bluetooth+APP (Optional:LCD)						
Communication	RS485,Optional:WIFI,4G,LAN						
CERTIFICATION							
Grid standards	EN50549-1, PN-EN 50549-1,PSE,PTPiREE,RD647,RD413,RD1699,UNE 217001/2,NTS631,NC RfG,INMETRO 140,INMETRO 515						
Safety/EMC	IEC/EN 62109-1/2,EN IEC61000-6-2/4,EN IEC 61000-3-11/12						

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THREE PHASE ON-GRID INVERTER

ASN-250TLX-HV | ASN-280TLX-HV | ASN-300TLX-HV | ASN-330TLX-HV | ASN-350TLX-HV

High Efficiency

» Max.efficiency up to 99.08%,EU efficiency up to 98.8%
» Output power up to 350kW,Including 6 MPPTs,75A per MPPT
» Max. 30 strings, compatible to 182 and 210 series PV module

Smart

» Supports I-V curve scanning, accurately identifying string anomalies
» Adaptive SBF&SBR, Smart Self-cleaning Fan
» Fault forcast and Discretenss Analysis, Online Mantenanve order Management

Safe & Reliable

» Smart Connector-level Detection, Smart DC-Switch Disconnection
» Smart Terminal-level Detection, Auto Safety Protection on AC Side
» IP65 protection rating, C5-M anti-corrosion shell,adaptable to harsh operating environments

Economical & Cost-Saving

» Supporting for weak power grids SCR~1.1
» Higher power quality, THDI<1.5%
» Faster power response time; actives:<60ms;Reactives:<30ms
» Q at nignt function, Auto reactive power Control According to Demand
Power line communication, High Speed & High Anti-interfence PLC

	ASN-250TLX-HV	ASN-280TLX-HV	ASN-300TLX-HV	ASN-330TLX-HV	ASN-350TLX-HV
PV INPUT					
Max. PV input power	380kW	420kW	450kW	480kW	500kW
Max. PV input voltage	1500V				
Rated PV input voltage	1080V				
Start-up voltage	520V				
MPPT voltage range	500-1500V				
Max. PV input current	6*65A		6*75A		
Max. short circuit current	6*105A		6*125A		
MPPT number/Max. input strings number	6/30				
AC OUTPUT					
Rated output power	250kW	280kW	300kW	330kW	350kW
Max. apparent output power	250kVA	280kVA	300kVA	330kVA	350kVA
Rated output voltage	600V,3L/PE	690V,3L/PE	800V,3L/PE		
Rated output frequency/ frequency range	50Hz/60Hz (±5Hz)				
Rated output current	241A	234A	217A	238A	254A
Power factor	>0.99 (0.8 leading ... 0.8 lagging)				
THDi	＜1.5%				
EFFICIENCY					
MPPT efficiency	99.80%		99.80%		
Max. efficiency	99.02%		99.08%		
EU efficiency	98.70%		98.80%		
PROTECTION					
Integrated DC switch	Yes				
DC rever-polarity protection	Yes				
String monitoring	Yes				
Insulation impedance detection	Yes				
Residual leakage current detection	Yes				
Ground fault monitoring	Yes				
Short circuit protection	Yes				
Anti-islanding protection	Yes				
DC/AC surge protection	DC:Type II;AC:Type II				
PID recovery	Optional				
DC arc-fault circuit protection	Optional				
I/V curve scanning	Yes				
GENERAL					
Operating temperature range	-30...+60℃				
Max. operation altitude	5000m (Derating above 4000m)				
Relative humidity	0-100%				
Cooling concept	Smart Fan Cooling				
Ingress protection	IP65				
Anti-corrosion grade	C5-M				
Topology	Transformerless				
Night self consumption	＜6W				
Dimensions (W*H*D)	1128*808*351mm				
Weight	≤115kg				
COMMUNICATION					
Display	LED+Bluetooth+APP				
Communication	RS485,Optional:WIFI,4G,PLC				
CERTIFICATION					
Grid standards	EN 50549-1,IEC 61727/ 62116,IEC 61683,IEC 60068,IEEE1547,UL1741, VDE 4105				
Safety/EMC	IEC/EN 62109-1/2,EN IEC61000-6-2/4,EN IEC 61000-3-11/12				

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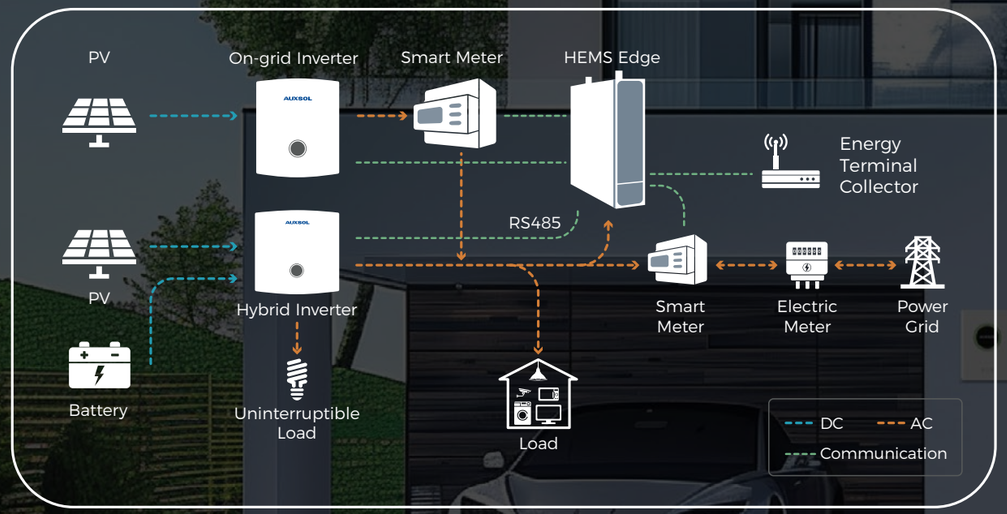
One-Stop Solution For Residential

Energy Storage



LOW VOLTAGE HYBRID INVERTER

(SINGLE PHASE)

ASG-3.6SL-ZL | ASG-4SL-ZL | ASG-5SL-ZL | ASG-6SL-ZL | ASG-8SL-ZL | ASG-10SL-ZL

High Efficiency

» Wide MPPT voltage range for increased power generation
» Max. string current 20A, suitable for high-current/double-sided components

Smart

» Supports remote diagnostics and software updates
» Easy to set up intelligent working modes
» Compatible with diesel generators, can control the generator automatically start and stop

User-Friendly

» <4ms UPS-level switching
» Smart load dual output interface protection
» 6 editable charge/discharge times

Safe & Reliable

» Supports I-V curve scanning, accurately identifying string anomalies
» Intelligent AFCI reduces fire risk (Optional)

Economical & Cost-Saving

» Supports grid-connected and off-grid AC coupled access

	ASG-3.6SL-ZL	ASG-4SL-ZL	ASG-5SL-ZL	ASG-6SL-ZL	ASG-8SL-ZL	ASG-10SL-ZL
PV INPUT						
Max. PV access power	7.2kW	8kW	10kW	12kW	16kW	20kW
Max. PV input power	5.4kW	6kW	7.5kW	9kW	12kW	15kW
Max.input voltage	550V					
Rated PV input voltage	360V					
Start-up voltage	60V					
MPPT voltage range	90-450V					
Max. PV input current	16A/16A				32A/32A	
Max. short circuit current	20A/20A				40A/40A	
MPPT number/Max. input strings number	2/2				2/4	
BATTERY						
Battery type	Lead-acid or Li-ion					
Rated battery voltage	48V					
Battery voltage range	40-60V					
Max. charge / discharge current	190A/190A					210A/210A
Communication	CAN/RS485					
Charging strategy for Li-Ion battery	Self-adaption to BMS					
AC OUTPUT						
Rated output power	3.6kW	4kW	5kW	6kW	8kW	10kW
Max. apparent output power	3.96kVA	4.4kVA	5.5kVA	6.6kVA	8.8kVA	11kVA
Rated output voltage	220V/230V,L/N/PE					
Output voltage range	160V-300V					
Rated output frequency/ frequency range	50Hz/60Hz (±5Hz)					
Rated output current	15.7A	17.4A	21.7A	26.1A	34.8A	43.5A
Max.output current	17.2A	19.1A	23.9A	28.7A	38.3A	47.8A
Power factor	>0.99 (0.8 leading - 0.8 lagging)					
THDi	<3%					
AC INPUT						
Rated input power	3.6kW	4kW	5kW	6kW	8kW	10kW
Max. input power	6.9kW	6.9kW	6.9kW	9.2kW	11.5kW	11.5kW
Rated input voltage	220V/230V,L/N/PE					
Rated input frequency	50/60Hz					
Max. input current	30A			40A	50A	
BACK-UP OUTPUT						
Rated output power	3.6kW	4kW	5kW	6kW	8kW	10kW
Max. ouput power	2 times of rated power, 10 s					
Rated output voltage	220V/230V,L/N/PE					
Rated output frequency	50/60Hz					
Max. output current	17.2A	19.1A	23.9A	28.7A	38.3A	43.5A
Back-up switch time	<4ms					
THDv	<3%					
EFFICIENCY						
MPPT efficiency	99.80%					
Max. efficiency	97.70%					
EU efficiency	96.70%					
BAT charged/discharged Max. efficiency	95.3% / 93.9%					
PROTECTION						
Integrated DC switch	Yes					
DC rever-polarity protection	Yes					
Insulation impedance detection	Yes					
Residual leakage current detection	Yes					
Ground fault monitoring	Yes					
Short circuit protection	Yes					
Anti-islanding protection	Yes					
DC/AC surge protection	DC:Type II;AC:Type II					
DC arc-fault circuit protection	Optional					
I/V curve scanning	Yes					
Parallel connection number of inverter	Max.16					
GENERAL						
Operating temperature range	-40 to +60℃					
Max. operation altitude	4000m(Derating above 3000m)					
Relative humidity	0~100%					
Cooling concept	Smart Fan Cooling					
Ingress protection	IP 66					
Topology	Transformerless					
Self consumption(night)	≤20W					
Dimensions (W*H*D)	350*560*237mm					
Weight	25kg					
Type of PV terminal	MC4 connector					
Type of AC terminal (Grid side)	Terminal					
COMMUNICATION						
Display	LCD+LED+Bluetooth+APP					
Communication	WIFI+Bluetooth,Optional:GPRS,LAN ;BMS:RS485/CAN					
CERTIFICATION						
Grid standards	IEC 61727/62116,IEC 61683,NRS 097,EN 50549,PEA					
Safety/EMC	IEC/EN 62109-1/2,IEC/EN 62477-1, EN IEC61000-6-1/2/3/4,EN IEC 61000-3-11/12					

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LOW VOLTAGE HYBRID INVERTER

(THREE PHASE)

ASG-3.6TL-ZL | ASG-4TL-ZL | ASG-5TL-ZL | ASG-6TL-ZL | ASG-8TL-ZL | ASG-10TL-ZL | ASG-12TL-ZL

High Efficiency

» Wide MPPT voltage range for increased power generation
» Max. string current 20A, suitable for high-current/double-sided components

Smart

» Supports remote diagnostics and software updates
» Easy to set up intelligent working modes
» Compatible with diesel generators, can control the generator automatically start and stop

User-Friendly

» <4ms UPS-level switching
» Smart load dual output interface protection
» 6 editable charge/discharge times

Safe & Reliable

» Supports I-V curve scanning, accurately identifying string anomalies
» Intelligent AFCI reduces fire risk (Optional)

Economical & Cost-Saving

» Supports grid-connected and off-grid AC coupled access

	ASG-3.6TL-ZL	ASG-4TL-ZL	ASG-5TL-ZL	ASG-6TL-ZL	ASG-8TL-ZL	ASG-10TL-ZL	ASG-12TL-ZL
PV INPUT							
Max. PV access power	7.2kW	8kW	10KW	12KW	16KW	20KW	24KW
Max. PV input power	5.4kW	6kW	7.5kW	9kW	12kW	15kW	18kW
Max. input voltage	1000V						
Rated PV input voltage	600V						
Start-up voltage	160V						
MPPT voltage range	170-900V						
Max. PV input current	16A/16A				26A/26A		
Max. short circuit current	20A/20A				32A/32A		
MPPT number/Max. input strings number	2/2				2/4		
BATTERY							
Battery type	Lead-acid or Li-ion						
Rated battery voltage	48V						
Battery voltage range	40-60V						
Max. charge / discharge current	250A/250A						
Communication	CAN/RS485						
Charging strategy for Li-Ion battery	Self-adaption to BMS						
AC OUTPUT							
Rated output power	3.6kW	4kW	5kW	6kW	8kW	10kW	12kW
Max. apparent output power	3.6kVA	4kVA	5kVA	6kVA	8kVA	10kVA	12kVA
Rated output voltage	220V/380V,230V/400V,3L/N/PE						
Output voltage range	165-288V(Phase voltage),286-498V(Line voltage)						
Rated output frequency/ frequency range	50Hz/60Hz (±5Hz)						
Rated output current	5.2A	5.8A	7.3A	8.7A	11.6A	14.5A	17.4
Max. output current	8.3A	9.2A	11.4A	13.6A	18.2A	22.7A	27.3A
Power factor	>0.99 (0.8 leading - 0.8 lagging)						
THDi	<3%						
AC INPUT							
Rated input power	3.6kW	4kW	5kW	6kW	8kW	10kW	12kW
Max. input power	7.2kW	8kW	10kW	12kW	16kW	20kW	24kW
Rated input voltage	220V/380V,230V/400V,3L/N/PE						
Rated input frequency	50/60Hz						
Max. input current	11A	12.2A	15.2A	18.2A	24.2A	30.3A	36.4A
BACK-UP OUTPUT							
Rated output power	3.6kW	4kW	5kW	6kW	8kW	10kW	12kW
Max. ouput power	2 times of rated power, 10 s						
Rated output voltage	220V/380V,230V/400V,3L/N/PE						
Rated output frequency	50/60Hz						
Max. output current	5.5A	6.1A	7.6A	9.1A	12.1A	15.2A	18.2A
Back-up switch time	<4ms						
THDv	<3%						
EFFICIENCY							
MPPT efficiency	99.80%						
Max. efficiency	97.34%						
EU efficiency	96.45%						
BAT charged/discharged Max. efficiency	93.90%						
PROTECTION							
Integrated DC switch	Yes						
DC rever-polarity protection	Yes						
Insulation impedance detection	Yes						
Residual leakage current detection	Yes						
Ground fault monitoring	Yes						
Short circuit protection	Yes						
Anti-islanding protection	Yes						
DC/AC surge protection	DC:Type II;AC:Type II						
DC arc-fault circuit protection	Optional						
I/V curve scanning	Yes						
Parallel connection number of inverter	Max.16						
GENERAL							
Operating temperature range	-40 to +60 ℃						
Max. operation altitude	4000m(Derating above 3000m)						
Relative humidity	0~100%						
Cooling concept	Smart Fan Cooling						
Ingress protection	IP 66						
Topology	Transformerless						
Self consumption(night)	≤20W						
Dimensions (W*H*D)	380*625*270mm						
Weight	39kg						
Type of PV terminal	MC4 connector						
Type of AC terminal (Grid side)	Terminal						
COMMUNICATION							
Display	LCD+LED+Bluetooth+APP						
Communication	WIFI+Bluetooth,Optional:GPRS,LAN ;BMS:RS485/CAN						
CERTIFICATION							
Grid standards	IEC 61727/62116,IEC 61683,NRS 097,EN 50549,PEA						
Safety/EMC	IEC/EN 62109-1/2,IEC/EN 62477-1, EN IEC61000-6-1/2/3/4,EN IEC 61000-3-11/12						

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OFF GRID HYBRID INVERTER

(SINGLE PHASE)

ASO-3.6SL-ZL | ASO-4SL-ZL | ASO-5SL-ZL | ASO-6SL-ZL

High Efficiency

» Max. string current 20A, suitable for high-current/double-sided components
» 60V low start-up voltage enables early startup and more energy generation

Smart

» Supports remote diagnostics and software updates
» Easy to set up intelligent working modes
» Compatible with diesel generators, can control the generator automatically start and stop

User-Friendly

» <3ms UPS-level switching
» 6 editable charge/discharge times

Safe & Reliable

» Supports I-V curve scanning, accurately identifying string anomalies
» Intelligent AFCI reduces fire risk (Optional)

Economical & Cost-Saving

» Supports grid-connected and off-grid AC coupled access

	ASO-3.6SL-ZL	ASO-4SL-ZL	ASO-5SL-ZL	ASO-6SL-ZL
PV INPUT				
Max. PV access power	7.2kW	8kW	10kW	12kW
Max. PV input power	5.4kW	6kW	7.5kW	9kW
Max. input voltage	550V			
Rated PV input voltage	360V			
Start-up voltage	60V			
MPPT voltage range	90-550V			
Max. PV input current	20A/20A			
Max. short circuit current	30A/30A			
MPPT number/Max. input strings number	2/2			
BATTERY				
Battery type	Lead-acid or Li-ion			
Rated battery voltage	48V			
Battery voltage range	40-60V			
Max. charge / discharge current	90A	100A	120A	135A
Communication	CAN/RS485			
Charging strategy for Li-Ion battery	Self-adaption to BMS			
AC INPUT				
Rated input power	3.6kW	4kW	5kW	6kW
Max. input power	3.6kVA	4kVA	5kVA	6kVA
Rated input voltage	220V/230V, L/N/PE			
Rated input frequency	50/60Hz			
Max. input current	16.3A	18.2A	22.7A	27.3A
Max. Continuous AC Passthrough (grid to load)	35A			
BACK-UP OUTPUT				
Rated output power	3.6kW	4kW	5kW	6kW
Rated output voltage	220V/230V, L/N/PE			
Rated output frequency	50/60Hz			
Max. output current	16.3A	18.2A	22.7A	27.3A
Back-up switch time	< 3ms			
THDv	< 2%			
EFFICIENCY				
MPPT efficiency	99.90%			
Max. efficiency	97.7%			
EU efficiency	97.6%			
BAT charged/discharged Max. efficiency	95.3% / 93.9%			
PROTECTION				
Integrated DC switch	Yes			
DC rever-polarity protection	Yes			
Insulation impedance detection	Yes			
Residual leakage current detection	Yes			
Ground fault monitoring	Yes			
Short circuit protection	Yes			
Anti-islanding protection	Yes			
DC/AC surge protection	DC:Type II; AC:Type II			
Battery reverse protection	Yes			
DC arc-fault circuit protection	Optional			
I/V curve scanning	Yes			
Parallel connection number of inverter	Max.16			
GENERAL				
Operating temperature range	-40 to +60℃			
Max. operation altitude	4000m(Derating above 3000m)			
Relative humidity	0~100%			
Cooling concept	Smart Fan Cooling			
Ingress protection	IP 66			
Topology	Transformerless			
Self consumption(night)	≤20W			
Dimensions (W*H*D)	462*305*180 mm			
Weight	20kg			
Type of PV terminal	Terminal			
Type of AC terminal (Grid side)	Terminal			
COMMUNICATION				
Display	LCD+LED+Bluetooth+APP			
Communication	Standard:RS485 Optional:WiFi/LAN; BMS:RS485/CAN			
CERTIFICATION				
Safety/EMC	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1/-2			

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HIGH VOLTAGE HYBRID INVERTER

(SINGLE PHASE)

ASG-3.6SL-ZH | ASG-4SL-ZH | ASG-4.6SL-ZH | ASG-5SL-ZH | ASG-6SL-ZH

High Efficiency

» String current up to 16A
» 80V low start-up voltage enables early startup and more energy generation

Smart

» Compatible with diesel generators, can control the generator automatically start and stop
» Supports up to 16 off-grid parallel wrok
» Integrated Intelligent Management System

User-Friendly

» A variety of operating modes can be selected, suitable for different application scenarios
» <10ms UPS-level switching
» 6 editable charge/discharge times

Safe & Reliable

» Supports I-V curve scanning, accurately identifying string anomalies
» Intelligent AFCI reduces fire risk (Optional)

Economical & Cost-Saving

» Supporting AC coupling and transforming PV grid-connected systems
» Support for dynamic tariffs
» Support for the “peak shaving” model

	ASG-3.6SL-ZH	ASG-4SL-ZH	ASG-4.6SL-ZH	ASG-5SL-ZH	ASG-6SL-ZH
PV INPUT					
Max. PV access power	7.2kW	8kW	10kW	10kW	12kW
Max. PV input power	5.4kW	6kW	6.9kW	7.5kW	9kW
Max. input voltage	550V				
Rated PV input voltage	360V				
Start-up voltage	80V				
MPPT voltage range	90-520V				
Max. PV input current	16A/16A				
Max. short circuit current	20A/20A				
MPPT number/Max. input strings number	2/2				
BATTERY					
Battery type	Li-ion				
Battery voltage range	80V-480V				
Max. charge / discharge current	30A/30A				
Communication	CAN/RS485				
Charging strategy for Li-Ion battery	Self-adaption to BMS				
AC OUTPUT					
Rated output power	3.6kW	4kW	4.6kW	5kW	6kW
Max. apparent output power	3.96kVA	4.4kVA	4.96kVA	5.5kVA	6.6kVA
Rated output voltage	220V/230V,L/N/PE				
Output voltage range	160V-300V				
Rated output frequency/ frequency range	50Hz/60Hz (±5Hz)				
Rated output current	15.7A	17.4A	20A	21.7A	26.1A
Max.output current	17.2A	19.1A	22A	23.9A	28.7A
Power factor	>0.99 (0.8 leading - 0.8 lagging)				
THDi	<3%				
AC INPUT					
Rated input power	3.6kW	4kW	4.6kW	5kW	6kW
Max. input power	4.8kW	5.3kW	6.2kW	6.7kW	8kW
Rated input voltage	220V/230V,L/N/PE,				
Rated input frequency	50/60Hz				
Max. input current	21A	23A	26.8A	29.1A	34.8A
BACK-UP OUTPUT					
Rated output power	3.6kW	4kW	4.6kW	5kW	6kW
Max. ouput power	2 times of rated power, 10 s				
Rated output voltage	220V/230V,L/N/PE,				
Rated output frequency	50/60Hz				
Max. output current	15.6A	17.4A	20A	21.7A	26A
Back-up switch time	<10ms				
THDv	<3%				
EFFICIENCY					
MPPT efficiency	99.80%				
Max. efficiency	97.8%				
EU efficiency	96.8%				
BAT charged/discharged Max. efficiency	97.6%				
PROTECTION					
Integrated DC switch	Yes				
DC rever-polarity protection	Yes				
Insulation impedance detection	Yes				
Residual leakage current detection	Yes				
Ground fault monitoring	Yes				
Short circuit protection	Yes				
Anti-islanding protection	Yes				
DC/AC surge protection	DC:Type II;AC:Type II				
Battery reverse protection	Yes				
DC arc-fault circuit protection	Optional				
I/V curve scanning	Optional				
Parallel	Optional				
GENERAL					
Operating temperature range	-30 to +60℃				
Max. operation altitude	4000m(Derating above 3000m)				
Relative humidity	0~100%				
Cooling concept	Natural Cooling				
Ingress protection	IP 66				
Topology	Transformerless				
Self consumption(night)	≤17W				
Dimensions (W*H*D)	455*461*213mm				
Weight	19kg				
Type of PV terminal	MC4 connector				
Type of AC terminal (Grid side)	Quick connection plug				
COMMUNICATION					
Display	LED+Bluetooth+APP(Optional:LCD)				
Communication	WIFI+Bluetooth,Optional:GPRS,LAN ;BMS:RS485/CAN				
CERTIFICATION					
Grid standards	EN 50549-1,IEC 61727/62116,IEC 61683,UNE 217001,UNE 217002,NTS-631, PTPiREE,NCRfG,VDE 4105,VDE 0124,INMETRO 515,NRS 097				
Safety/EMC	IEC/EN 62109-1/2,IEC/EN 62477-1, EN IEC61000-6-1/2/3/4,EN IEC 61000-3-11/12				

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HIGH VOLTAGE HYBRID INVERTER

(THREE PHASE)

ASG-5TL-ZH | ASG-6TL-ZH | ASG-8TL-ZH | ASG-10TL-ZH | ASG-12TL-ZH | ASG-15TL-ZH | ASG-20TL-ZH

High Efficiency

» 180-800V ultra-wide battery voltage range, compatible with more battery capacity
» String current up to 18A
» 2x prolonged off-grid overload capability

Smart

» Supports grid-connected and off-grid three-phase unbalanced outputs, single-phase outputs up to 150%
» Compatible with diesel generators, can control the generator automatically start and stop
» Supports up to 16 off-grid parallel wrok

User-Friendly

» A variety of operating modes can be selected, suitable for different application scenarios
» <10ms UPS-level switching
» 6 editable charge/discharge times
» Smart Meter Phase Sequence Automatic Detection

Safe & Reliable

» Supports I-V curve scanning, accurately identifying string anomalies
» Intelligent AFCI reduces fire risk (Optional)

Economical & Cost-Saving

» Supporting AC coupling and transforming PV grid-connected systems
» Support for dynamic tariffs
» Support for the “peak shaving” model

	ASG-5TL-ZH	ASG-6TL-ZH	ASG-8TL-ZH	ASG-10TL-ZH	ASG-12TL-ZH	ASG-15TL-ZH	ASG-20TL-ZH
PV INPUT							
Max. PV access power	10kW	12kW	16kW	20kW	24kW	30kW	40kW
Max. PV input power	7.5kW	9kW	12kW	15kW	18kW	22.5kW	30kW
Max. input voltage	1000V						
Rated PV input voltage	600V						
Start-up voltage	160V						
MPPT voltage range	170-900V						
Max. PV input current	16A/16A		26A/26A			36A/36A	36A/36A
Max. short circuit current	20A/20A		32A/32A			45A/45A	45A/45A
MPPT number/Max. input strings number	2/2		2/4				
BATTERY							
Battery type	Lead-acid or Li-ion						
Battery voltage range	180-800V						
Number of battery input channels	1					2	
Max. charge/discharge current	30A/30A					2*30A/2*30A	
Communication	CAN/RS485						
Charging strategy for Li-Ion battery	Self-adaption to BMS						
AC OUTPUT							
Rated output power	5kW	6kW	8kW	10kW	12kW	15kW	20kW
Max. apparent output power	5kVA	6kVA	8kVA	10kVA	12kVA	15kVA	20kVA
Rated output voltage	220V/380V,230V/400V,3L/N/PE						
Output voltage range	165-288V(Phase voltage),286-498V(Line voltage)						
Rated output frequency/ frequency range	50Hz/60Hz (±5Hz)						
Rated output current	7.3A	8.7A	11.6A	14.5A	17.4	21.7A	28.9A
Max. output current	11.4A	13.6A	18.2A	22.7A	27.3A	34.1A	45.5A
Power factor	>0.99 (0.8 leading - 0.8 lagging)						
THDi	<3%						
AC INPUT							
Rated input Power	5kW	6kW	8kW	10kW	12kW	15kW	20kW
Max. input power	10kW	12kW	16kW	20kW	24kW	30kW	30kW
Rated input voltage	220V/380V,230V/400V,3L/N/PE						
Rated input frequency	50/60Hz						
Max. input current	15.2A	18.2A	24.2A	30.3A	36.4A	45.5A	45.5A
BACK-UP OUTPUT							
Rated output Power	5kW	6kW	8kW	10kW	12kW	15kW	20kW
Max. ouput power	2 times of rated power, 10 s						
Rated output voltage	220V/380V,230V/400V,3L/N/PE						
Rated output frequency	50/60Hz						
Max. output current	7.6A	9.1A	12.1A	15.2A	18.2A	22.7A	30.3A
Back-up switch time	<10ms						
THDv	<3%						
EFFICIENCY							
MPPT efficiency	99.80%						
Max. efficiency	97.34%						
EU efficiency	96.45%						
BAT charged/discharged Max. efficiency	97.35%						
PROTECTION							
Integrated DC switch	Yes						
DC rever-polarity protection	Yes						
Insulation impedance detection	Yes						
Residual leakage current detection	Yes						
Ground fault monitoring	Yes						
Short circuit protection	Yes						
Anti-islanding protection	Yes						
DC/AC surge protection	DC:Type II;AC:Type II						
Battery reverse protection	Yes					/	
DC arc-fault circuit protection	Optional						
I/V curve scanning	Optional						
Parallel	Optional						
GENERAL							
Operating temperature range	-30 to +60℃						
Max. operation altitude	4000m(Derating above 3000m)						
Relative humidity	0~100%						
Cooling concept	Natural Cooling					Smart Fan Cooling	
Ingress protection	IP 66						
Topology	Transformerless						
Self consumption(night)	≤20W						
Dimensions (W*H*D)	561*520*232mm						
Weight	33.2kg				37.8kg		
Type of PV terminal	MC4 connector						
Type of AC terminal (Grid side)	Quick connection plug						
COMMUNICATION							
Display	LED+Bluetooth+APP(Optional:LCD)						
Communication	WIFI+Bluetooth,Optional:GPRS,LAN ;BMS:CAN/RS485						
CERTIFICATION							
Grid standards	EN 50549-1,IEC 61727/ 62116,IEC 61683,UNE 217001,UNE 217002,NTS-631, PTPiREE,NC RfG,VDE 4105,NA/EEA,TOR Erzeuger,ORDINANCE No.515,G98,G99						
Safety/EMC	IEC/EN 62109-1/2,IEC/EN 62477-1, EN IEC61000-6-1/2/3/4,EN IEC 61000-3-11/12						

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C&I
HYBRID INVERTER
(THREE PHASE)

ASG-29.9TL-ZH | ASG-30TL-ZH | ASG-36TL-ZH | ASG-40TL-ZH | ASG-50TL-ZH

High Efficiency
» String current up to 20A
» 2x prolonged off-grid overload capability

Smart
» Supports grid-connected and off-grid three-phase unbalanced outputs, single-phase outputs up to 150%
» Integrated Intelligent Management System

User-Friendly
» A variety of operating modes can be selected, suitable for different application scenarios
» Smart Meter Phase Sequence Automatic Detection

Safe & Reliable
» Supports I-V curve scanning, accurately identifying string anomalies
» Intelligent AFCI reduces fire risk (Optional)

Economical & Cost-Saving
» Supporting AC coupling and transforming PV grid-connected systems
» Support for the “peak shaving” model

	ASG-29.9TL-ZH	ASG-30TL-ZH	ASG-36TL-ZH	ASG-40TL-ZH	ASG-50TL-ZH
PV INPUT					
Max. PV access power	59.8kW	60kW	72kW	80kW	100kW
Max. PV input power	44.9kW	45kW	54kW	60kW	75kW
Max. input voltage	1000V				
Rated PV input voltage	620V				
Start-up voltage	160V				
MPPT voltage range	150-850V				
Max. PV input current	40A*3			40A*4	
Max. short circuit current	50A*3			50A*4	
MPPT number/Max. input strings number	3/6			4/8	
BATTERY					
Battery type	Li-ion				
Battery voltage range	150-800V				
Number of battery input channels	2				
Max. charge / discharge current	80A+80A				
Communication	CAN/RS485				
Charging strategy for Li-Ion battery	Self-adaption to BMS				
AC OUTPUT					
Rated output power	29.9kW	30kW	36kW	40kW	50kW
Max. apparent output power	29.9kVA	33kVA	39.6kVA	44kVA	55kVA
Rated output voltage	220V/380V,230V/400V,3L/N/PE				
Output voltage range	165-288V(Phase voltage),286-498V(Line voltage)				
Rated output frequency/ frequency range	50Hz/60Hz(±5Hz)				
Max. output current	43.2A	47.6A	57.2A	63.5A	79.4A
Power factor	>0.99 (0.8 leading - 0.8 lagging)				
THDi	<3%				
AC INPUT					
Rated input power	59.8kW	60kW	72kW	80kW	100kW
Max. input power	59.8kW	60kW	72kW	80kW	100kW
Rated input voltage	220V/380V,230V/400V,3L/N/PE				
Rated input frequency	50/60Hz				
Max. input current	86.3A	86.6A	103.9A	115.5A	144.3A
BACK-UP OUTPUT					
Rated output Power	29.9kW	30kW	36kW	40kW	50kW
Max. ouput power	1.5 times of rated power, 10 s				
Rated output voltage	220V/380V,230V/400V,3L/N/PE				
Rated output frequency	50/60Hz				
Max. output current	43.2A	43.3A	52A	57.7A	72.2A
Back-up switch time	< 10ms				
THDv	< 2%				
EFFICIENCY					
MPPT efficiency	99.80%				
Max. efficiency	98.10%				
EU efficiency	97.60%				
BAT charged/discharged Max. efficiency	97.4%/98.5%				
PROTECTION					
Integrated DC switch	Yes				
DC rever-polarity protection	Yes				
Insulation impedance detection	Yes				
Residual leakage current detection	Yes				
Ground fault monitoring	Yes				
Short circuit protection	Yes				
Anti-islanding protection	Yes				
DC/AC surge protection	DC:Type II;AC:Type II				
Battery reverse protection	Yes				
DC arc-fault circuit protection	Optional				
I/V curve scanning	Yes				
Parallel	Optional				
GENERAL					
Operating temperature range	-30 to +60℃				
Max. operation altitude	4000m(Derating above 3000m)				
Relative humidity	0~100%				
Cooling concept	Smart Fan Cooling				
Ingress protection	IP 66				
Topology	Transformerless				
Self consumption(night)	≤20W				
Dimensions (W*H*D)	530×890×295				
Weight	75kg				
Type of PV terminal	MC4 connector				
Type of AC terminal (Grid side)	OT terminal				
COMMUNICATION					
Display	LCD+LED+Bluetooth+APP				
Communication	WIFI+Bluetooth,Optional:4G,LAN;BMS:CAN/RS485				
CERTIFICATION					
Grid standards	EN 50549-1,IEC 61727/62116,IEC 61683,VDE 4105,NRS 097				
Safety/EMC	IEC/EN 62109-1/2,IEC/EN 62477-1, EN IEC61000-6-1/2/3/4,EN IEC 61000-3-11/12				

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BATTERY(LV)

ABL02-2.5L20 | ABL02-05L20 | ABL02-10L20 | ABL02-16L20

Wide adaptability

High Efficiency ≥98%

Multiple protection types, more secure

Remote OTA upgrades, Zero-cost

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	ABL02-2.5L20	ABL02-05L20	ABL02-10L20	ABL02-16L20
PERFORMANCE PARAMETERS				
Cell type	LiFePO4			
Cell specification	100Ah	100Ah	205Ah	314Ah
Nominal voltage	25.6V	51.2V		
Operating voltage	22.4~28.8V	44.8~57.6V		
Nominal energy	2.56kWh	5.12kWh	10.24kWh	16.07kWh
Usable energy[1]	2.3kWh	4.6kWh	9.21kWh	14.46kWh
Charge/discharge current(recommend)	50A	100A	100A	157A
Max. charge/discharge current	100A	100A	200A	200A
GENERAL PARAMETERS				
Weight[2]	22kg	52.5kg	93kg	118.5kg
Dimension(w*h*d ±1)	345*430*195mm	420*660*160mm	420*660*245mm	420*895*250mm
Parallel quantities	Max.15 pcs in Parallel			
Life cycle	≥6000[*1]			≥8000[*2]
Warranty	5 Years			
Operating temperature	Charge: 0~50℃, Discharge: -20~50℃			
Storage temperature	-20~45℃≤1 month; -20~35℃≤6 month			
Relative humidity	5%~95%(Non-condensing)			
Cooling method	Natural Cooling			
Installation method	Floor-standing/Wall-mounted			Floor-standing
Installation environment	Indoor			
Ingress protection rating[3]	IP20			
Max. operating altitude[4]	≤2,000m			
Protection strategy	Overvoltage Protection, Overcurrent Protection, Short Circuit Protection, Overtemperature Protection			
COMMUNICATION				
Display	SOC, Faults, and Operating Status			
Communication protocol	RS485/CAN/Bluetooth			
REFERENCE STANDARDS				
Certification	CE,UN38.3			

[1].DC Usable Energy,test conditions:90% DOD,0.5C charge & discharge at 25℃.
[2].The weight is subject to the actual product and may have a tolerance of ±3%.
[3].IP65 is optionally available.
[4].Output power may be affected by altitude.
[*1].25℃±2℃,90%DOD,1C,70%EOL
[*2].25℃±2℃,90%DOD,0.5C,70%EOL

BATTERY(HV)

ABL-T05H-H02 ABL-T10H-H02 ABL-T15H-H02 ABL-T20H-H02 ABL-T25H-H02

High Efficiency

» LiFeO4 Lithium iron phosphate battery cells,
» Batteries can be stacked up to 26.5kWh in a single cluster, supporting 2x capacity expansion.
» Passes five-meter drop test, puncture test

Smart

» AI BMS Plus
» Intelligent redundant protection

User-Friendly

» Modular design, quick plug-in installation, no wiring required
» Matchable single-phase and three-phase high-voltage hybrid inverters
» Optional heating module
» Remote diagnosis & update

Safe & Reliable

» Cycle life > 6000 cycles
» Warranty up to 10 years
» Configuration of smoke sensor and fuse double insurance
» IP65 protection rating, adaptable to harsh operating environments
» Unpackaged 5m drop, no risk of fire or smoke

Economical & Cost-Saving

» Easy installation and low maintenance

	ABL-T05H-H02	ABL-T10H-H02	ABL-T15H-H02	ABL-T20H-H02	ABL-T25H-H02
BATTERY					
Nominal battery energy	5.3kWh	10.6kWh	15.9kWh	21.2kWh	26.5kWh
Available energy	4.5kWh	9kWh	13.5kWh	18kWh	22.5kWh
Battery module	1	2	3	4	5
Cell type	LFP				
Nominal voltage	102.4V	204.8V	307.2V	409.6V	512V
Working voltage	86.4V-115.2V	172.8V-230.4V	259.2-345.6V	345.6- 460.8V	432-576V
Max. output power	3kW	6kW	9kW	12kW	15kW
Max. charging/discharging current	32A				
Peak power	3.5kW/10s	7kW/10s	10.5kW/10s	14kW/10s	17.5kW/10s
Peak current	35A, Lasts 10s				
Soc indicator	4*LED (25%, 50%, 75%, 100%)				
State indicator	2*LED (work, alarm)				
Communication	CAN, RS485				
GENERAL DATA					
Dimensions (W*H*D)	700*660*200mm	700*950*200mm	700*1300*200mm	700*1650*200mm	700*2000*200mm
Net weight	59kg	103.5kg	148kg	192.5kg	237kg
Operating temperature range	Charge: -20 -50℃; Discharge: -20 -50℃				
Working altitude	4000m				
Calendar Life	＞6000(70%EOL)				
Working humidity（RH)	5 ~ 95%				
Ingress protection	IP65				
Warranty	10 years				
Alarms	Over charge / Over discharge / Over current / Over temperature / Short Circuit				

***Minimun two battery modules required for startup** (Three-phase hybrid inverter)

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DC-DC BATTERY(HV)

ABL03-T05D66 | ABL03-T10D66 | ABL03-T15D66 | ABL03-T20D66

ABL03-T08D66 | ABL03-T16D66 | ABL03-T24D66 | ABL03-T32D66

Support mixing old and new battery packs

Conversion efficiency 98.5%

Equipped with lightning protection function

Save electricity costs

Supports the parallel connection of two battery packs

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	ABL03-T05D66	ABL03-T10D66	ABL03-T15D66	ABL03-T20D66	ABL03-T08D66	ABL03-T16D66	ABL03-T24D66	ABL03-T32D66
MODULE								
Battery cell specifications	Lithium iron phosphate 314Ah/3.2V							
Cell grouping method	1P6S				1P8S			
Number of packs	1	2	3	4	1	2	3	4
Total capacity	5kWh	10kWh	15kWh	20kWh	8.06kWh	16.12kWh	24.18kWh	32.24kWh
Rated charging and discharging power	2.5kW	5kW	8kW	10kW	4kW	8kW	12kW	16kW
Rated voltage	470V(370~560V)							
ELECTRICAL PARAMETER								
Weight	71kg	129kg	187kg	245kg	80.2kg	144.7kg	209.2kg	273.7kg
Height - including base	500mm	780mm	1060mm	1340mm	525mm	800mm	1075mm	1350mm
Width - including decorative parts	738mm				870mm			
Depth - including decorative parts	260mm				255mm			
Installation method	Floor installation, wall mounted installation							
Working temperature	-20~55℃							
Storage temperature	-25~60℃							
Relative humidity	5~95% RH (without condensation)							
Working altitude	≤4000m							
Thermal management	Natural cooling and battery heating function							
Protection level	IP66							
Protection strategy	Overvoltage and overcurrent protection, short circuit protection, and over temperature protection							
Scalability	Parallel connection of two stacks							
Mixing old and new battery packs	support							
Fire control	Pack level fire protection							
Authentication	REACH, RoHS, IEC62620, IEC60730, IEC62619, IEC63056, UN38.3							
DISPLAY & COMMUNICATION								
Display	SOC status, faults, and operational status							
Communication Interface	RS485/CA							

C&I
ENERGY STORAGE

ABL-T60H | ABL-T100H

Standardized design of modules

Easy to install

Flexible combination & matching

	ABL-T60H	ABL-T100H
BATTERY CELL		
Battery type	LFP	
Battery cell specification	100Ah/3.2V	
PACK		
Composition mode	1P16S	
Capacity	5.12kWh	
Rated voltage	51.2V	
Voltage range	40-58.4V	
Ingress protection	IP20	
Dimensions	440*133*570mm	
Weight	45kg	
Fire protection	Aerosol	
Max. capacity	Max.24&120kWh	
SYSTEM		
Composition mode	1P16S*12S	2P16S*10S
Capacity	61.44kWh	102.4kWh
Rated voltage	614.4V	512V
Voltage range	480-700.8V	400-584V
Operating temperature range	-20~55℃	
Relative humidity	0~85%RH	
Max. operation altitude	≤2000m	
Dimensions	610*2250*610mm	1220*1800*610mm
Weight	600kg	1.4t
Communication	CAN/RS485	
Certification	UN38.3/IEC62619	

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BATTERY ENERGY STORAGE SYSTERM

EESB-L3720-2EU EESB-L5000-2EU

High Efficiency
» Energy density increased by 80%
» Thermal management efficiency increased by 30%

Smart
» Remote operation and maintenance

User-Friendly
» Modular prefabrication, no need for on site installation

Safe & Reliable
» PACK level fire protection, high security, Multiple fuse protection

Economical & Cost-Saving
» Save 35% of floor space

TECHNICAL SPECIFICATIONS & PARAMETERS	EESB-L3720-2EU	EESB-L5000-2EU
Rated capacity	3.72MWh	5MWh
Cell type	LFP 3.2V/280Ah	LFP 3.2V/314Ah
Charge / discharge rate	1C	0.25C/0.5C
Combination mode	1P52S*8*10	1P52S*8*12
Pack quantity	80	96
Battery rated voltage	1331.2V	
Battery voltage range	1164.8~1497.6V	
Protection level	IP55	
Working temperature range	-30~60˚C	
Relative humidity	5~95% RH (without condensation)	
Max. operating altitude	≤2000m	
Fire protection system	Water firefighting / Perfluorohexane / Aerosol (optional)	
Auxiliary power supply	AC 400V 50Hz	
Weight	About 35t	About 40t
Dimensions (L*W*H)	6058*2438*2896mm	

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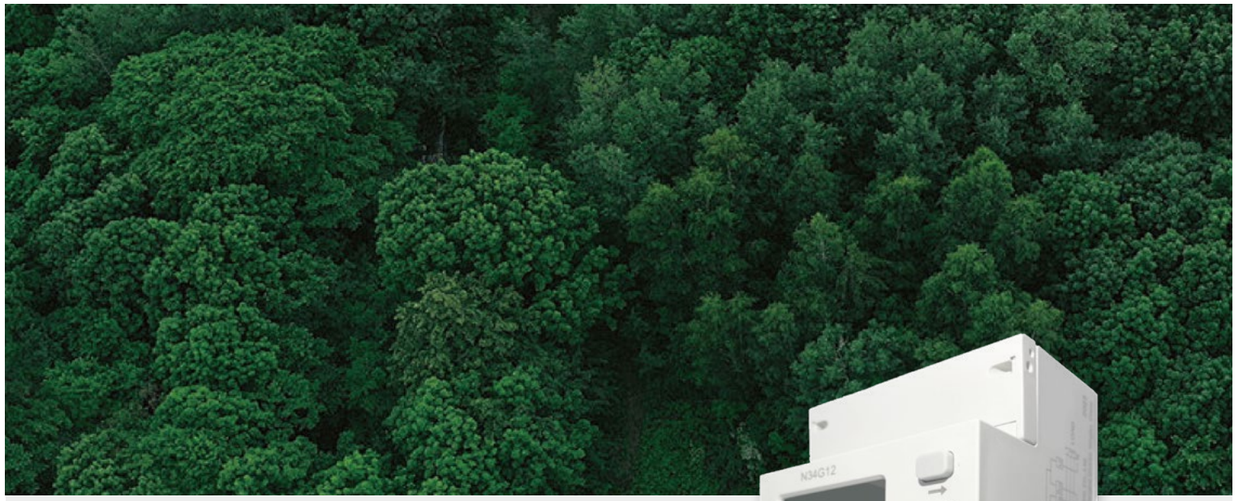

THREE-PHASE RAIL-MOUNTED METER

(ZERO-EXPORT METER)

N34G12

» N34G12 rail meter adopts special metering chip, modular design, with multi-function, high accuracy, small size, fast response, high stability and other characteristics. The product can be used in three-phase with four-wire, single-phase with two-wire and other power grids, and can measure quantity of active power, voltage, current, active power, reactive power, frequency, power factor, split-phase power and other parameters. Instantaneous volume refresh rate up to 20ms, communication response time is less than 30ms.

» N34G12 rail meter has 1 channel active electric pulse output; 1 channel RS485 communication port (Modbus RTU); The default RS485 communication rate is 9600bps (and can be customized to a higher rate); support active optical pulse output signal. And the product can be adapted to different inverter models.

» N34G12 rail meter has good electromagnetic compatibility. And has obtained the following certifications: international GB/T17215, GB/T15284, GB/T17883 and power industry standards DL/T614, IEC62053-21.

- CE certification
- Max current 80A direct access
- Support single-phase with 2 wire, three-phase with 4 wire
- Communication response time <30ms
- Bidirectional metering
- Active power pulse output
- Multi-metering parameter measurement, Power refresh time 20ms
- RS485 Modbus

Access method	Accuracy level	Voltage	Current	Frequency	Impulse constant
Direct	Level 1/B	3*230/400V	0.25-5(80)A	45Hz~65Hz	1000

KEY PERFORMANCE INDICATORS			
Power refreshing time	20ms	Communication response time	<30ms
Start-up current	0.4%Ib	Temperature	Operating temperature:-25℃ ~ 70℃ Storage and transportation temperature:-40℃ ~ 70℃
Communication interface	RS485	Humidity	Working Humidity:≤90% Storage and Transportation Humidity:≤95
Signal	Active	Ip rating	IP5X
AC withstand voltage	4kV	Voltage line power consumption	<1W 5VA
Pulse withstand voltage	4kV	Current line power consumption	<1VA
Electrostatic discharge	8kV contact discharge 15kV air discharge	Surge	4kV
Electromagnetic interference	IEC61000-4-3	Group pulse	4kV
Conducted radiation	EN55022	Weight	≈360g
Appearance size	100*72*66mm	Mounting dimension	35mm rail mounted

RS485 communication			
Bus type	RS485 bus half-duplex	Distance	<1000m
Protocol	Modbus RTU(default)	Communication rate	9600bps(default) 19200bps(rate can be customized)
Bus load	<64pcs	Data bit	8
Calibration bits	EVEN\ODD\NONE(default)	Stop bit	1

AC CHARGER

» AUXSOL AC CHARGER is a practical, intelligent charging system for electric vehicles and plug-in hybrids, which connects to the MYAUXSOL (application) charging management platform using Wi-Fi or Bluetooth. The Charger comes with the addition of integrated DC leakage protection as standard.

» AUXSOL CHARGER is compact, and features the most advanced technology to provide Max. charging performance.

» AUXSOL CHARGER easily adapts to any installation, in private garages or shared parking.

Versatile

Communications:
4G, Wi-Fi, Ethernet, RS485

Operating temperature
-30˚C ~ 50˚C

Multiple protection

	Basic version	Public version
Product model	SACG11 A322Q11, SACG11 A163Q11, SACG11 A323Q11	SACG12 A163Q13, SACG12 A323Q13
Reference standards	EN IEC 61851-1	
Installation	Wall mounting, Pole mounting	
Charge connector	Type 2 Cable	Type 2 cable / Type 2 socket / Type 2 socket with shutter
working temperature	-30℃~55℃	
Authentication	CE/CB	CE
Emergency stop button	Yes	/
Output power selection	7kW/11kW/22kW	
Charging interface	1 x Type 2 plug (Case C)	2 x Type 2 plug (Case C)
Measurement method	On-board metering (2% accuracy)	Obtained MID certification (1% accuracy)
Standby power consumption	≤10W	≤15W
Protection function	Short-circuit protection, overcurrent protection, over-temperature protection, over-voltage and under-voltage protection, grounding protection, leakage protection	
Leakage protection	Onboard integrated 6mA DC+30mA AC	
Is there a screen	No	
Screen display content	/	
Status display	Indicator Lights: LED strip displays charging station status	
Start up method	Offline RFID card, plug and charge	RFID cards, APP, plug-and-charge, management platform
Stop method	Charging stops when swiping the card or automatically stops when fully charged	1.Stop charging when swiping the card; 2. Automatic stop when fully charged; 3. The APP remotely stops charging; 4. The management platform remotely stops charging
Card swiping standards	ISO/IEC 14443 A	ISO/IEC 14443 A, ISO/IEC 15693
Communication method	RS485	4G, Wi-Fi, Ethernet, RS485
Product upgrade	Local upgrade (burning tool upgrade)	Remote automatic upgrade + local upgrade
Bluetooth	No	5.0
Platform communication protocol	/	OCPP 1.6J
Product dimensions	Charger: 250*350*105mm W*D*H Pole: 150*80*1210mm W*D*H	Charger: 281*409*97mm W*D*H Pole: 280*180*1312mm W*D*H
Differences in measurement requirements among European countries	/	The European market requires MID certification; The German market requires PTB certification; The French market needs to support TIC measurement; The Dutch market needs to support P1 measurement

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R290 MONOBLOCK AIR TO WATER HEAT PUMP

» The heat pump uses a small amount of electric energy as the driving force and refrigerant as the carrier to carry the heat in the air to meet the needs of users for cooling/ heating/hot water.

-7℃ Capacity no Damping

High Efficiency

Low Noise Operation

Combination of 8 units

SINGLE-PHASE

MARKET MODEL (SINGLE-PHASE)			ACHP-H04/4R 2HA-M	ACHP-H06/4R 2HA-M	ACHP-H08/4R 2HA-M	ACHP-H10/4R 2HA-M	ACHP-H12/4R 2HA-M	ACHP-H14/4R 2HA-M	ACHP-H16/4R 2HA-M	ACHP-H04/4R 2HA-M (NE)	ACHP-H06/4R 2HA-M (NE)	ACHP-H08/4R 2HA-M (NE)	ACHP-H10/4R 2HA-M (NE)	ACHP-H12/4R 2HA-M (NE)	ACHP-H14/4R 2HA-M (NE)	ACHP-H16/4R 2HA-M (NE)
Power supply	Monobloc Unit	V/Ph/H	220-240/1/50													
Heating (A:7/6℃ W:30/35℃)	Capacity	kW	4.5	6.35	8.4	10	12	14	15.1	4.5	6.35	8.4	10	12	14	15.1
	COP		5.15	4.95	5	4.8	4.9	4.8	4.7	5.15	4.95	5	4.8	4.9	4.8	4.7
Heating (A:7/6℃ W:47/55℃)	Capacity	kW	4.6	6.40	7.8	9.5	12	14	15.1	4.6	6.40	7.8	9.5	12	14	15.1
Cooling (A:35℃ W:23/18℃)	Capacity	kW	4.5	6.5	8.3	10	12	14	16	4.5	6.5	8.3	10	12	14	16
	EER		5.5	5.1	5.15	4.75	4.5	3.6	3.9	5.5	5.1	5.15	4.75	4.5	3.6	3.9
Cooling (A:35℃ W:12/7℃)	Capacity	kW	4.7	6.8	7.5	8.9	11.5	12.7	14	4.7	6.8	7.5	8.9	11.5	12.7	14
	EER		3.65	3.1	3.45	3.25	3.05	2.9	2.75	3.65	3.1	3.45	3.25	3.05	2.9	2.75
Seasonal space heating energy eficiency class7	LWT at 35℃		A+++													
	LWT at 55℃		A+++													
Refrigerant(R290)	Factory charge	kg	0.55		0.85		1.35			0.55		0.85		1.35		
Sound power	Monobloc Unit	dB	56		57		58	59	60	56		57		58	59	60
Wiring	Power wiring	mm2	3×4mm2+3×4mm2				3×6mm2+3×4mm2			3×4mm2				3×6mm2		

THREE-PHASE

MARKET MODEL			ACHP- H08/5R 2HA-M	ACHP- H10/5R 2HA-M	ACHP- H12/5R 2HA-M	ACHP- H14/5R 2HA-M	ACHP- H16/5R 2HA-M	ACHP- H12/5R 2HA-M (NE)	ACHP- H14/5R 2HA-M (NE)	ACHP- H16/5R 2HA-M (NE)
Power supply	Monobloc Unit	V/Ph/H	380-415/3/50							
Heating (A:7/6℃ W:30/35℃)	Capacity	kW	8.4	10	12	14	15.1	12	14	15.1
	COP		5	4.8	4.9	4.8	4.7	4.9	4.8	4.7
Heating (A:7/6℃ W:47/55℃)	Capacity	kW	7.8	9.5	12	14	15.1	12	14	15.1
	COP		3.3	3.25	3.25	3.2	3.15	3.25	3.2	3.15
Cooling (A:35℃ W:23/18℃)	Capacity	kW	8.3	10	12	14	16	12	14	16
	EER		5.15	4.75	4.5	3.6	3.9	4.5	3.6	3.9
Cooling (A:35℃ W:12/7℃)	Capacity	kW	7.5	8.9	11.5	12.7	14	11.5	12.7	14
	EER		3.45	3.25	3.05	2.9	2.75	3.05	2.9	2.75
Seasonal space heating energy eficiency class7	LWT at 35℃		A+++							
	LWT at 55℃		A+++							
Refrigerant(R290)	Factory charge	kg	0.85		1.35			1.35		
Sound power	Monobloc Unit	dB	57		58	59	60	58	59	60
Wiring	Power wiring	mm2	5×4mm2+5×4mm2		5×6mm2+5×4mm2			5×6mm2		

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R290
ALL IN ONE

» The heat pump uses a small amount of electric energy as the driving force and refrigerant as the carrier to carry the heat in the air to meet the needs of users for cooling/ heating/hot water.

316
316 stainless steel

45mm
45mm insulation layer

1m＜30dB
Low Noise Operation

Build in the water flow sensor

Build in 3-way valve

R290 All In One

Model name			8kW	10kW	12kW	14kW	16kW	12kW	14kW	16kW
Model			ACHA-H08 /4R2EA19	ACHA-H10 /4R2EA19	ACHA-H12 /4R2EA19	ACHA-H14 /4R2EA19	ACHA-H16 /4R2EA19	ACHA-H12 //5R2EA19	ACHA-H14 /5R2EA19	ACHA-H16 /5R2EA19
Power supply	Monobloc Unit	V/Ph/H	220-240/1/50		220-240/1/50			380-415/3/50		
Heating2	Capacity	kW	8.1	9.8	11.6	13.6	15.1	11.6	13.6	15.1
	Rated input	kW	1.62	2.04	2.37	2.83	3.21	2.37	2.83	3.21
	COP		5	4.8	4.9	4.8	4.7	4.9	4.8	4.7
Heating3	Capacity	kW	7.6	9.4	11.5	14	14.8	11.5	14	14.8
	Rated input	kW	2.30	2.89	3.54	4.38	4.70	3.54	4.38	4.70
	COP		3.3	3.25	3.25	3.2	3.15	3.25	3.2	3.15
Cooling4	Capacity	kW	8.1	9.8	11.6	13.6	15.8	11.6	13.6	15.8
	Rated input	kW	1.57	2.06	2.58	3.78	4.05	2.58	3.78	4.05
	EER		5.15	4.75	4.5	3.6	3.9	4.5	3.6	3.9
Cooling5	Capacity	kW	7.4	8.8	11.1	12.5	14	11.1	12.5	14
	Rated input	kW	2.14	2.71	3.6	4.31	5.09	3.6	4.31	5.09
	EER		3.45	3.25	3.05	2.9	2.75	3.05	2.9	2.75
Seasonal space heating energy eiciency class7	LWT at 35°C		A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
	LWT at 55°C		A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
SCOP6	LWT at 35°C		5.1	5.1	4.71	4.71	4.75	4.71	4.71	4.75
	LWT at 55°C		3.85	3.85	3.825	3.825	3.825	3.825	3.825	3.825
DHW energy eiciency	Water heating energy eiciency class		A+	A+	A+	A+	A+	A+	A+	A+
	COPDHW		2.95	2.95	2.88	2.88	2.88	2.88	2.88	2.88
	Declared load profile		L		L			L		
Water pump	Pump head	m	9	9	9	9	9	9	9	9
	Max Flow	m3/h	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	Adapter diameter		DN25	DN25	DN25	DN25	DN25	DN25	DN25	DN25
Refrigerant(R290)	Factory charge	kg	0.85	0.85	1.35	1.35	1.35	1.35	1.35	1.35
Sound pressure level	Outdoor Unit	dB(A)	44	44	45	46	47	45	46	47
	Indoor Unit		31		31			31		
Sound power level	Outdoor Unit	dB	57		58	59	60	58	59	60
	Indoor Unit		43		43			43		
Packed dimensions (W×D×H)	Outdoor Unit	mm	1355*545*1210		1355*545*1210			1355*545*1210		
	Indoor Unit	mm	700*682*1835		700*682*1835			700*682*1835		
Body dimensions (W×D×H)	Outdoor Unit	mm	1280*420*1040		1280*420*1040			1280*420*1040		
	Indoor Unit	mm	600*600*1720		600*600*1720			600*600*1720		
Operating temperature range	Cooling	℃	-5 ~ 43		-5 ~ 43			-5 ~ 43		
	Heating	℃	-25 ~ 35		-25 ~ 35			-25 ~ 35		
	Domestic hot water	℃	-25 ~ 43		-25 ~ 43			-25 ~ 43		
Setting water temperature range	Cooling	℃	5 ~ 25		5 ~ 25			5 ~ 25		
	Heating	℃	25 ~ 80		25 ~ 80			25 ~ 80		
	Domestic hot water	℃	30 ~ 75		30 ~ 75			30 ~ 75		
Water circuit	Piping connections	inch	G1"BSP		G1"BSP			G1"BSP		
	DHW Piping connections	inch	G3/4"BSP		G3/4"BSP			G3/4"BSP		
	Safety valve set pressure	MPa	0.3		0.3			0.3		
	Flow switch	m3/h	0.6		0.6			0.6		
	Expansion	Volume/L	8		8			8		
	Capacity of the back-up heater	kW	3		3			3		
	Water side	Type	Plate type		Plate type			Plate type		
Stuing Quantity	40H/40/20	Outdoor Unit / Unit	68/33/16		68/33/16			68/33/16		
		Indoor Unit / Unit	51/51/24		51/51/24			51/51/24		

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ENERGY STORAGE SYSTEM CABINET

EESB-LI261-02

All-in-one design

Remote operation and maintenance (OTA upgrade)

Data storage (Fault recording)

Safer (cluster level/PCS/high voltage box/ distribution box four-level protection)

DC SIDE	
Cell type	LFP 3.2V/314Ah
Battery pack configuration	1P52S/52.25kWh
Battery system configuration	1P260S
Battery voltage range	DC 728V~DC 936V
Battery system capacity	261kWh
Discharge rate	≤0.5P
AC SIDE	
Pcs power	125kW
Pcs cooling method	Air-cooled
AC side voltage	380V AC, -20% ~ +15%
AC wiring	Three-phase Four-wire
(PF)Factor	-1 (Lead) ~ 1 (Lag)
Thdi (power rating)	<3%
Wire entry method	Wire entry at the bottom of the cabinet
SYSTEM PARAMETERS	
Thermal management	Liquid Cooling
Fire protection system	Fire Detection + Perfluorohexanone
Protection level	IP54
Corrosion protection level	C3
Allowable ambient temperature	Charge: 0~55˚C, Discharge: -20~55˚C
Allowable ambient humidity	5%~95%RH (no condensation)
Methods of communication	MODBUS-TCP
Dimensions (l*w*h)	1400mm×1063mm×2400mm
Weight	Approx. 2800kg
Max. operating altitude	≤ 2000m (> 2000m derating)
Auxiliary electricity	AC220V (internal integrated)

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Remote Monitoring

Intelligent AI

Power plant, inverter, string ranking comparison function
Improve operation and maintenance efficiency iv scan function
One-click to know pv modules status intelligent alarm propelling
More efficient for troubleshooting intelligent local devices comparison

Convenient O&M

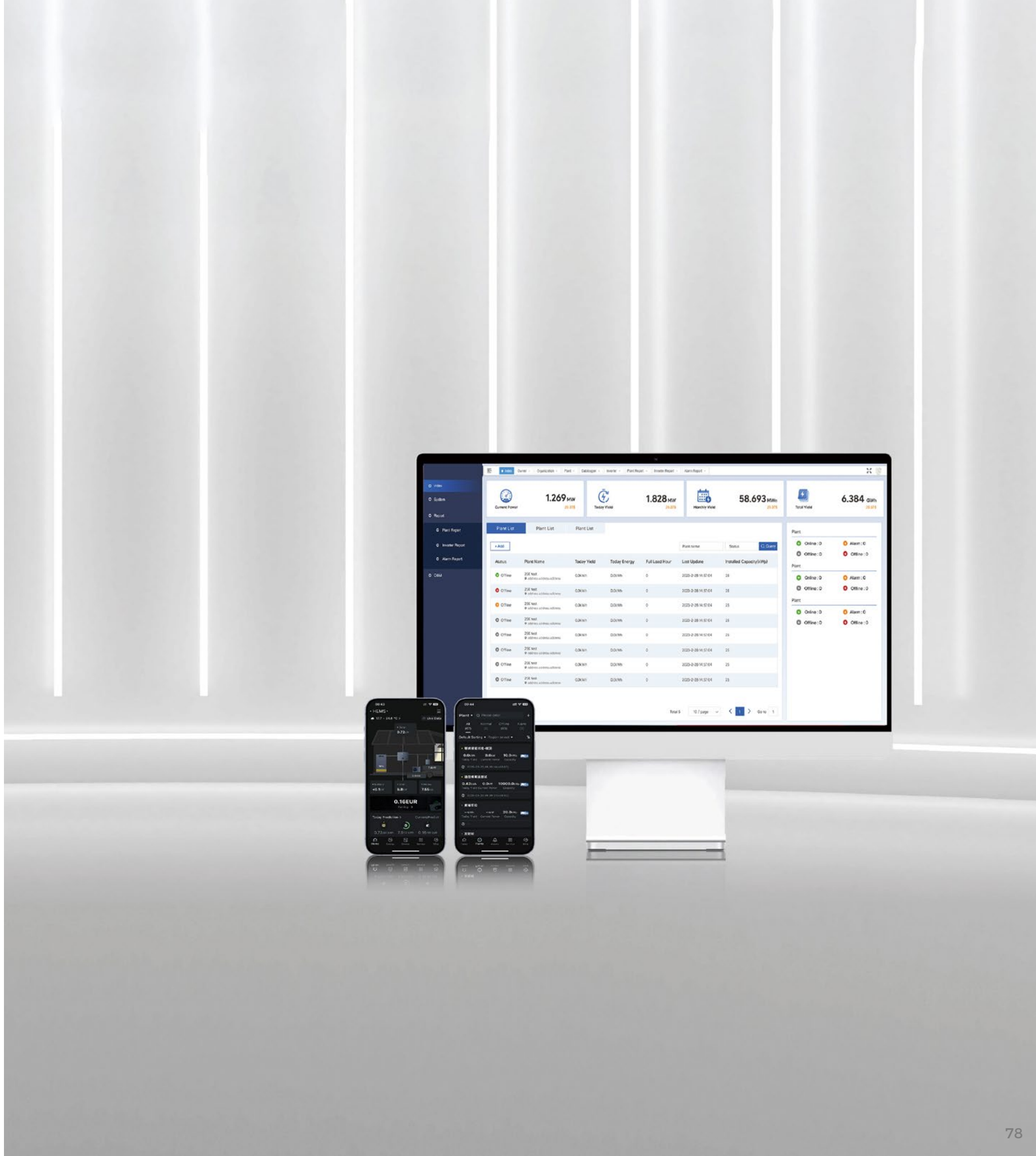
One-click creating plant & One-click adding device
Built-in repair channel in APP, convenient for end customers to report failure
Multi-level maintenance, supporting level management
Multidimensional real-time data, supporting remote configuration
Large screen display, intuitive & clear

Safe & Reliable

Micro service framework, supporting tens of million devices
Safe operating information, supporting investigation and retrospection
Safe link, multiple data backup

Fast implementation

Five steps to quickly establish the power station (guide setup, wiring diagnosis, information filling)



Concept

- Comprehensive support for all AUXSOL products, including on-grid inverters, hybrid inverters, battery pack, datalogger, meter etc.
- Customer focused service concept
- Factory trained and certified service engineers ensure good service experience for global customers

Warranty Service

Based on AUXSOL products, provide suitable and cost-effective solution.
Provide corresponding extended warranty according to different regions requirement.

Training Support

Product Features
Operation & Maintenance
Troubleshooting Guide

On-line training for Customers & Service Partners

On-site training for O&M stuff of customers